AECS 2019-2020 CATALOGUE

Latest Updated Catalogue in Season 2019-2020 now available
Advanced Equine and Camel Solutions is the industry leader in equine and camel health and performance products. AECS manufacture and distribute the highest quality products developed by our team of Animal Sports Scientists and Veterinarians with over 40 years experience combined in our fields of expertise.

The latest scientific discoveries, technology and using the most pure and potent certified ingredients combined with a passionate and experienced team of experts allow AECS to develop a portfolio of world class, superior and unique formulations.

Knowledge and insight in the field of horse and camel racing is derived from racing at the elite level in North America as well as liaising with the top trainers and veterinarians around the world on a daily basis.

Most of the products that are offered on the market today do not contain quality or strength and are ineffective. Most of the products produced for the equine world are either copies, full of fillers and poor quality ingredients and the people behind the websites are not contactable.

AECS products have been scientifically researched and developed over many years by our team of industry experts, universities and laboratories around the world. The products are made to the purest form, with ingredients sourced from the best and most reputable pharmaceutical companies.

The products are legal, they do not swab, are easily administered and are very effective. With AECS you can guarantee your horse or camel is getting the absolute best quality products on the market today. There is not a competitor out in the industry today that can compare to what AECS can offer. Products are customised to target specific problems or needs for camels and racehorses.

AECS is the answer to any owner, stable, trainer or breeder who are looking for the edge to compete at the very highest level.
Mission
To provide the world’s most effective, potent and scientifically advanced formulations for the elite animal athlete. All around the globe, companies and websites promote products which are either fake (or copies), diluted and simply misleading and don’t work. We guarantee all our products meet the highest standards and provide quality and assurance of the most pure ingredients.

All our clients and customers are treated with the utmost privacy and confidentiality and with our continued direction from our research and development team, it is our mission to constantly work with our clientele sharing our knowledge to manufacture products with the latest breakthrough technology to provide them the winning edge.

Vision
Our company already supplies to the most prestigious owners, trainers and breeders around the world. It is our vision to continue to collaborate with universities and leading scientists to remain at the forefront of our industry and continue to be number 1.

Values
Integrity
Quality
Passion
Confidentiality
Relationships
Innovative
Horse racing is one of the most ancient sports dating back more than 2000 years with archaeological records indicating that it was a popular sport in Greece and the Middle East.

Equestrian sports provided entertainment for crowds and honed the excellent horsemanship that was needed in battle. Horse racing of all types evolved from impromptu competitions between riders or drivers. All forms of competition, requiring demanding and specialised skills from both horse and rider, resulted in the systematic development of specialised breeds and equipment for each sport. The popularity of equestrian sports and camel racing through the centuries has resulted in the preservation of skills that would otherwise have disappeared after horses stopped being used in combat. From ancient times until today, horse and camel racing is one of the most popular and high profile sports.

The industry today is global and prestigious. The health of the animal is paramount. Horses and camels are getting faster and stronger through better breeding and scientific advancements in supplements and feeds.
The industry today is global and prestigious. The health of the animal is paramount. Horses and camels are getting faster and stronger through better breeding and scientific advancements in supplements and feeds.

Many companies and individuals have suspect websites and there is a lack of trust and faith in most products in the marketplace due to their deceitful and misleading actions.

AECS supplies to the biggest clients and stables around the world because we have built trust and strong relationships based on a high level of integrity.

Many products in today’s market are fakes, copies, diluted, or do not use the purest ingredients.
Buffit Paste

The only ‘All Natural and 100% Safe for Competition Lactic Buffer’ that really Works!

Buffit Paste is the most scientifically advanced lactic acid buffer paste available in the world today. The proprietary ingredients potent mode of action is over 400% stronger than any other lactic acid buffer ingredient on the market. It contains Pharmacy Grade and double buffered ingredients.

Benefits:

• Breaks down lactic acid
• Combats tying up
• Enhanced blood micro-circulation
• Improved of cell nutrition, alertness and immune function
• Improves Stamina
• Aids Recovery
• Relaxed blood vessels and improved

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How does Lactic Acid affect performance?
During exercise, muscles metabolise glucose (sugar) into energy. Muscles receive glucose continually through the blood, and also have their own stores of sugar (called glycogen). Lactic Acid builds up after the stored glycogen in muscles is used up. As lactic acid builds up in the muscles this leads to fatigue and severe muscle soreness which reduces the effectiveness of muscle activity. Every animal has an upper limit of exercise ability, called the anaerobic threshold or lactose threshold. The lactate threshold is measurement of how fit the heart and blood vessels are. With regular exercise training, a horse’s lactate threshold will increase. Exercising at an intensity below the lactate threshold produces very little lactic acid and the body quickly clears what is produced. A horse can exercise below the lactate threshold for a long time, even for hours. Once the intensity of exercise exceeds the lactate threshold, muscles begin to use glucose inefficiently, through alternative chemical reactions. Lactic acid is produced and can rapidly build up in the blood and muscles seriously affecting performance and endurance.

Why Buffit Paste?
Buffit Paste is the most scientifically advanced lactic acid buffer paste available in the world today. The proprietary ingredients potent mode of action is over 400% stronger than any other lactic acid buffer ingredient on the market. Buffit Paste directly extends lactic acid thresholds in horses and racing camels by increasing delivery of blood flow to muscle tissues, the strengthening of blood vessels and the support of tissue regeneration. The increased blood flow leads to an increase in the level oxygen stored in the muscle tissues (myoglobins) and an increase in glycogen levels (stored sugars in muscles). Increased glycogen in muscles extends the lactic acid threshold as lactic acid build up only occurs once the muscle has exhausted all stored glycogen.

Blood flow to the muscle tissues is increased through:
- Enhanced blood micro-circulation – AECS’s proprietary ingredient causes vasodilation (widening of the blood vessels) and increased blood flow to tissues in the body that are not receiving enough glucose, lipids or other nutrients.
- Relaxed blood vessels and improved blood flow - stimulates the enzyme ‘endothelial nitric oxide synthase’ (eNOS) for enhanced generation of Nitric Oxide (key mediator signalling dilation of blood vessels to ensure optimal blood flow to and from muscle tissues) from the precursor molecule L-arginine.
Other key ingredients in Buffit Paste play an integral role in the enhancement of cell nutrition, alertness and immune function.
• Branched-Chain Amino Acid (BCAA) - Essential Aminos of Leucine, Isoleucine and Valine that metabolise in the muscle instead of the liver. BCAA stimulates the building of protein in muscle and reduces muscle fibre breakdown which prevents muscle fatigue.
• Electrolytes - Electrolytes help to preserve the correct balance of fluids in cells and are involved in muscle function and the processing of waste. Electrolytes are necessary after exercise to replenish spent minerals and is vital for rehydration.
• L-Arginine - Plays in integral role in biochemical functions relating to protein synthesis, cellular energy, nitrogen donations for anabolic processes, carbon donation and nontoxic transport of ammonia in blood circulation.
• L-Carnitine - Required for transport of fatty acids during the breakdown of lipids (fats) for the generation of metabolic energy.

Buffit Paste has been double-buffered to be given as a drench with 30mls given orally at one time before competition.

What is Lactic Acid?
Lactic acid is a chemical compound that plays a role in various biochemical processes affecting performance in horses and camels and is used to release energy to the body without the involvement of oxygen - a process called anaerobic glycylsis, Lactic acid operates as a temporary fuel source during intense physical activity. In performance and competition, L-lactacte is constantly produced from pyruvate (ester of pyruvic acid) via the enzyme lactate dehydrogenase (LDH) in a process call fermentation during normal metabolism and exercise. It does not increase in concentration until the rate of lactate production exceeds the rate of lactate removal, which is governed by a number of factors, including monocarboxylate transporters, concentration and isoform of LDH, and oxidative capacity of tissues.

Is it Legal in Performance Animals?
Buffit Paste is 100% drug and chemical free. It contains no banned substances and does not swab. All users must adhere to the rules of racing that apply in their country or state.

Directions for Use:
Performance Dosage:
Administer 30g orally before competition. All users must follow the rules and regulations of the governing bodies in your country.

Maintenance Dosage:
Administer 10g orally 3 times a week for build-up of lactic acid resistance

Storage:
Buffit Paste should be stored at room temperature. Do not freeze. Do not expose to sunlight.

Sizes & Availability:
Buffit Paste is available for purchase in single 30ml syringes, 3-Packs and 10 Packs
SGF-5000 For the Elite Competitor

Natural Growth Factors

SGF-5000 is only for the serious competitor with the will to win. The advancements in SGF-5000 will take your horse or racing camel to a new level of competiveness. SGF-5000 is an innovative sterile liquid extract consisting of selected proteins, cytokines, (polypeptide regulators that are produced by cells of diverse embryological origin), peptides and other growth factors and signalling molecules obtained from ovine placenta extract.

Benefits:
• Boosts the immune system
• Health and wellness of internal organs and muscle tissue are optimized
• Rejuvenation and regeneration of cells in vital organs, muscles, tendons and body tissue
• Improved performance levels
• Increased energy levels, vigour, stamina and desire for physical activity
• It’s 100% safe for competition and has no banned substances.

6 x 10ml pack

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What is SGF-5000?

SGF-5000 is an innovative sterile liquid extract consisting of selected proteins, cytokines, (polypeptide regulators that are produced by cells of diverse embryological origin), peptides and other growth factors and signalling molecules obtained from ovine placenta extract. It is manufactured and purified via a low temperature process that involves homogenization, fractionation and ultra-filtration of (fractionated) liquid ovine placental extract suspended in a sterile liquid solution. SGF-5000 supersedes all other ovine placenta extract. Its super strength formulation and micro processing allows SGF-5000 to exceed up to 500% more concentration of selected proteins as well as natural growth factors and regenerative cells providing repair and maintaining a healthy response to the elite equine athletes. The new technology and advancement in micro processing as well as the selection of the most powerful liquid ovine extract available has provided SGF-5000 with the most potent natural growth factor product available anywhere in the world.

What Does SGF-5000 Achieve?

SGF-5000 maximizes the health and wellbeing of elite performance animals, enhancing and optimizing its muscular, tissue and tendon structure as well as the immune system, SGF-5000 enables an animal to perform at its optimum levels in training and performing in competition and events. Nutrition, exercise, breeding and care are the key ingredients that make up the animal athlete. The highest levels of performance in racing, working or show animals can only be realized when basic feed and supplement needs are met SGF-5000 offers the complete balanced protein and amino acid supplement with regenerative properties that is needed by animals in all types and stages of competition and breeding. The SGF-5000 work’s at the cellular level, most importantly at the stem cell level. Bathe the cells in the best possible protein and the cells will respond with resilience, health and longevity, strength and endurance. This generates abundant health and in turn the whole animal exhibits strength, stamina and better resistance to parasites and disease by increasing the immune system. When the cells are healthy, the entire animal is healthy, enabling it to perform at its very best also providing a healthy environment which will aid in fertility.

How Does SGF-5000 Work?

SGF-5000 activates stem cells in vivo from a quiescent (dormant) state to an active state at significant potency levels never before available in the market. The extracellular matrix molecules and growth factors within the product activate and release multi-potent primary stem cells to promote the proliferation and growth of multiple cell types to enhance existing tissue and build new healthy tissue where needed throughout entire body.

Activating Dormant Stem Cells

SGF-5000 promotes the activation of the dormant stem cells existent in the animal’s body. It has been scientifically proven that dormant stem cells are more potent than active stem cells within the body. This extra potency, once activated, creates a boost in the immune system so the health and wellness of internal organs and muscle tissue are optimized. The rejuvenation and regeneration of cells is also enhanced through the activation process.

Can All Animals Benefit?

All performance animals in the Animal Kingdom can benefit from the use of SGF-5000. Whether an animal is large or small, a performance animal either horse or camel, a superior stud breeding animal or valued pet. All performance animals will show improved performance levels resulting from enhanced internal cellular rejuvenation or replacement in vital organs, muscles, tendons and body tissue. Increased energy levels, vigour, stamina and desire for physical activity are a natural and normal result when neutralizing regenerative properties.

Side Effects

SGF-5000 is 100% sterile all natural product, with protein, peptides and other growth factors suspended in a sterile solution. Tests have shown that, if used in accordance with the directions, the product has no known harmful side effects.

Is It Legal for Performance Animals?

SGF-5000 should be used in accordance with the Directions for Use. The rules of racing in your state or country should be followed. It contains no banned substances and does not swab. Provided it is used in accordance with directions it will not compromise the performance of the animal in any way nor will it harm its future in any event in which it may compete.

How is it Administered & How often is it to be administered?

SGF-5000 is injected either intravenously or intramuscular and is administered by a qualified veterinarian. For best results we recommend intravenous. SGF-5000 should be administered every 4 weeks for best results or 5ml can be use every two weeks as a maintenance program.

Sizes, Availability and Directions for Use

SGF-5000 is available in 10ml vials for larger animals. These come in a six pack 10ml box. Single purchases are available.

Storage

Unopened vials should be stored in a refrigerator at 4°C. Do not freeze. Do not expose to sunlight. Keep out of reach of children.

Warning

Do not use if the security seal is broken or missing. Do not use after the expiration dates on the vial. Used vials do not contain any toxic products and can be disposed of safely. Dosage

Each vial of 10ml of SGF-5000. No more than one vial should be used on an animal over a period of 3 to 4 weeks.

Administration
Specifically manufactured for elite horses and camels

TB-1000 is a synthetic version of natural occurring peptides found in horses, camels and other high performance animals. Its regenerative properties help the body heal itself and build up strength naturally also provides improved overall performance. The TB-1000 formulation is chemical free with no side effects, and is suitable for thoroughbred race horses, show jump horses, dressage horses, redeo horses and polo horses as well as racing camels. In fact all high performance animals can benefit from TB-1000 as provides rapid surface wound healing with little or no scarring. Discomfort for the animal is minimal while the benefits of rapid healing are easily in evidence.

The use of TB-1000 peptides for horses also enhances their energy levels, improves muscle tone and provides increased muscular endurance. Additionally, there is a decrease in recovery time from training which is why the use of TB-1000 peptides is endorsed by leading owners, trainers and stables around the world.

Benefits:

- Increased Muscle Growth
- Increased Energy Levels
- Improved Muscle Tone
- Increased Muscular Endurance
- Muscle Spasm Relaxation
- Enhanced Tissue Repair
- Reducing Joint Inflammation
- Build Cardiac Muscle
- Helping Maintain Flexibility
- Decreased Recovery Time from Training and Racing

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WHAT IS TB-1000?
TB-1000 is a peptide which is applied by subcutaneous injection to promote angiogenesis, wound healing muscle growth. It has demonstrated cardio protective and immune-potentiating effects, as a potent anti-aging, and has anti-scarring properties. TB-1000 is a synthetic version of the naturally occurring peptide present in virtually all human and animal cells first located in the Thymus gland in 1981. The potency of Thyrosin Beta 4 present in TB-1000 is approximately 99%, the highest of its kind. An additional key factor of TB-1000 is that it promotes cell migration through a specific interaction with acting in the cell cytoskeletal. It has been demonstrated that a central small amino acid long acting binding domain has both blood cell reproduction and wound healing characteristics. These characteristics are uncovered by accelerating the migration of endothelial cells and keratinocytes. It also increases the production of extracellular matrix-degrading enzymes.

HOW DOES IT WORK?
In angiogenesis and in wound healing, TB-1000 acts by accelerating the migration of blood vessel cells and skin cells and increasing the production of extracellular matrix-degrading enzymes. It has also been shown to stimulate epidermal stem cell differentiator. When applied by subcutaneous injection, it assists in the generation of new blood vessels and aids wound healing by promoting skin cell regeneration.

WHY USE?
In performance animals, as in all animals, the benefits include faster and better wound repair, and faster recovery from injury. Trials to date indicate faster recovery time (wear and tear) from training, increased muscle girth, increased muscular endurance, increased muscular strength and increased energy levels.

SIZE
TB-1000 is available in boxes of 6 x 20 mg vials. Each vial contains 20 mg of Thyrosin derivative selected chain.

ADMINISTRATION AND DOSAGE
TB-1000 is administered by way of subcutaneous injection. It can be applied by any competent person, however, it is preferably administered by a qualified veterinarian.

Give 1 vial per week for 6 weeks.

STORAGE
Store below 25°C and protect from direct light.
For the elite competitor

Darbe-1000 is for elite competitor wanting serious results. The Darbe-1000 is a form of a protein that helps the body produce red blood cells. It is used to treat anemia caused by chemotherapy or chronic kidney disease.

Darbe-1000 also increases the metabolism and the healing process of muscles because the extra red cells carry more oxygen and nutrients.

As for elite athletes, Darbe-1000 offers 131,000 units per vial which is more powerful. It offers a means to increase arterial/blood oxygen content, which in turn leads to an increase in maximal oxygen intake. Furthermore, it reduces fatigue and improves endurance by increasing the rate of red cell production.

Benefits:

- Increase arterial/blood content
- Maximal oxygen uptake
- Enhances muscle performance
- Prompt increase in RBCS
- Improve oxygen delivery to muscles and tissues
- Increases speed and endurance
- Fast recovery
- Increase oxygen absorption
- Reduce fatigue and improve endurance by increasing the rate of red cell production
- Enhance athletic performance
- Reduce the need for blood transfusions

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WHAT IS DARBE-1000?
DARBE-1000 injection is used in high end performance, increases stamina and endurance (a lower than normal number of red blood cells) in support to chronic kidney failure (condition in which the kidneys slowly and permanently stop working over a period of time). It is a erythropoiesis-stimulating protein developed for the treatment of anemia. It is a hyperglycosylated analog of recombinant human erythropoietin with the same mechanism of action as erythropoietin, but with a three-fold longer terminal half-life after intravenous or subcutaneous administration than recombinant human erythropoietin and the native hormone in horses and camels. Darbe-1000 will enhance red blood cells to combat anaemia and enhance the athletes’ performance to the highest level.

HOW DOES IT WORK?
Darbe-1000 stimulates the bone marrow to produce more red blood cells. The resulting rise in red blood cells increases oxygen-carrying of the blood. Darbe-1000’s major functions are: • Promote the development of red blood cells • Provides large increase of Darbepoetin to initiate the synthesis of haemoglobin, thus the molecules transport oxygen within red blood cells and also improves endurance. • Enhance athlete’s performance and reducing fatigue. See further benefits on brochure.

WHY USE?
Its overall effect is to increase endurance and, in athletics, it is used mainly by long distance-runners. It is injected under the skin and stimulates red blood cell production. The more red cells there are in your body, the more oxygen that can be delivered to the muscles. This delays the onset of fatigue, meaning an athlete can run harder and for longer. Endurance horses stand to benefit most from an increase in maximal oxygen uptake as this is one of the limiting factors for performance.

SIZE
Available in 5ml per vial (up to 5-7 doses per vial).

INGREDIENTS
Darbepoetin Alfa Variants 131,000 units per vial

ADMINISTRATION AND DOSAGE
ADMINISTRATION AND DOSAGE Give 1ml intravenously or subcutaneously every week 5-7 for 5 treatments for best results, if racing within that period treat 4-5 days before competition.

STORAGE
Store below 25°C (Air conditioned). Avoid direct light.

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Improvement to peak performance

NITRO-MAX is an advanced breakthrough by Taylormade Horse Supplies International in Equine and Camel athletic performance enhancement, providing incredible benefits. The key ingredient in NITRO-MAX is a patented form of ATP (Adenosine Triphosphate Disodium) that has been demonstrated to increase extracellular ATP levels in the body, resulting in improved athletic performance and recovery.

Benefits:

• Increases Endurance & Speed.
• Relaxes the muscles and increases blood flow.
• Increases energy
• Dilates the arteries and relaxes the muscles
• Dramatically slows the rate of fatigue.
• Significantly improves recovery after racing.
• No Stimulants
• No Hormones
• No Banned Substances
• No Need to Cycle Off and On
• Safe for Long-term Use

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What is NITRO MAX?
NITRO MAX (ATP) is a nucleoside triphosphate as well as a synergistic blend of peptides and nutrients in cells as a coenzyme often called the “molecular unit of currency” of intracellular energy transfer. ATP transports chemical energy within cells for metabolism, energy, speed, vasodilation and smooth muscle flow.

HOW DOES IT WORK?
NITRO MAX creates energy improves endurance and speed, it also dilates the arteries to increase blood flow and oxygen.

WHY USE?
In addition, NITRO-MAX contains a synergistic blend of other powerful nutrients specifically formulated to help support the elevated needs of high performing Horses and Camels without stimulants or side effects. Because of this, many Horses and Camels use this NITRO-MAX as their pre race. This is a serious product for the serious competitor, NITRO-MAX is for the elite competitor striving for the winning edge.

INGREDIENTS
Adenosine Triphosphate Disodium and a patented synergistic blend of peptides and nutrients.

TREATMENT AND DOSAGE
Horses treat 20ml IV 3-5 hours before competition.

Camels treat 20ml IV 3 days before and again 30 hours before race.

SIZE
NITRO-MAX comes in a 100ml sterile vial.

STORAGE:
store below 25°C keep out of direct sunlight, do not freeze. Do not use if seal is broken, keep out of children’s reach.
AMP-5

Ultimate Multi-Purpose Formula

By producing a marked increase in blood supply to muscles and heart, AMP-5 increases the oxygen and essential nutrient supply to these areas during hard work, and improves the efficiency of removal of waste products such as lactic acid, to delay the onset of muscle fatigue.

Benefits:

• Increases blood flow
• Increases energy
• Increases blood supply to muscle tissue
• Prevents heart strain
• Delays the onset of muscle fatigue and cramping
• Improves vasodilation
• Supports over performance

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WHAT IS AMP-5?
AMP-5 (Adenosine-5-monophosphate) is a potent natural vasodilator which increases blood circulation to both skeletal and cardiac muscle. It can be used in anticipation of severe cardiac load in athletic animals or as a treatment for myocardial oxygen deficit. Another common use is in situations where increased blood perfusion to lower legs and feet is required (laminitis, lower leg wounds).

HOW DOES IT WORK?
It increases oxygen and essential nutrient supply to the muscles and heart during hard work it also improves the efficiency of waste product removal such as lactic acid delaying the onset of muscle fatigue. AMP-5 is of value in treatment and prevention of Tying Up for these reasons. Because of its potent vasodilation effect on cardiac muscles, AMP-5 is effective in treatment and prevention of heart strain and exercise induced “T Wave” changes in horses. By producing a marked increase in blood supply to muscles and heart, AMP-5 increases the oxygen and essential nutrient supply to these areas during hard work, and improves the efficiency of removal of waste products such as lactic acid, to delay the onset of muscle fatigue.

WHY USE?
Delays the onset of muscle fatigue and cramping to allow the animal to train and race for longer periods and to prevent severe cardiac load. It also increases blood flow, energy, blood supply to muscle tissue and prevents heart strain.

SIZE
Available in 100ml vials.

INGREDIENTS
AMP 200mg/ml (20ml Vial)

ADMINISTRATION AND DOSAGE
Adult horses: Administer 10ml by intramuscular injection 24 hours and again 4 hours before hard work.

CAUTION:
ADENOSINE MONOPHOSPHATE INJECTION must ONLY be administered by intramuscular injection (IM). DO NOT administer ADENOSINE MONOPHOSPHATE INJECTION by the intravenous (IV) route under any circumstances. This may lead to a profound rapid drop in blood pressure, with collapse and even death.

STORAGE
Store below 25°C (Air Conditioning).
IGF 1-LR3

Super Growth Factor

Long arginine 3-IGF-1, abbreviated as IGF-1 LR3 or LR3-IGF-1, is a synthetic protein and lengthened analogue insulin-like growth factor 1 (IGF-1). It differs from native IGF-1 in that it possesses an arginine instead of a glutamic acid at the third position in its amino acid sequence ("arginine 3"), and also has an additional 13 amino acids at its Nterminus (MFPAMPLLSSLFVN), for a total of 83 amino acids (relative to the 70 of IGF-1). IGF-1 LR3 allows us to go beyond our bodies genetic capabilities, by creating NEW muscle fibers (instead of just making them bigger) it gives us the ability to get stronger and performs better than normally. IGF-1 LR3 is the peptide specifically helpful in building muscle mass and strength. That is why many professionals use IGF-1 LR3 for high end performance benefits.

IGF-1 LR3 combats the loss of muscle mass, both by promoting new tissue growth and retarding apoptosis (cell suicide that protects against infection and healthy cells). It also promotes new nerve growth and has been linked to better cognitive performance.

Benefits:

- New development of muscles fibers
- Decreases inflammation and autoimmunity
- Helps to increase nutrient shuttling (protein synthesis)
- Creates bigger muscles and reduces muscle wasting
- Increases regenerative functions of nerve tissues
- Boosts the ability to cause hyperplasia in muscle cells resulting in fuller muscle tissue
- Stimulates muscle growth and shown to benefit the heart
- Helps burn fat, increase protein transport into cells, and reduce protein breakdown
- Improves the production of white blood cells and increase muscle growth
- Regulates Immune Response

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WHAT IS IGF-1 LR3?
IGF-1 LR3 is known for being a growth hormone. It has plenty of growth promoting effects and it is also great when it comes to growth like factors as well. It consists of a group of hormones that are known as proteins and these play a very large part when it comes to the mammalian growth in humans. These show that the growth hormone does not stimulate the cartilage, but rather operates as a serum factor instead. This is otherwise known as somatomedin. Most often, IGF-1 LR3 is used to stimulate muscle growth and the compound also helps to make the body much more sensitive to insulin.

HOW DOES IT WORK?
By stimulating the growth of new muscle cells and aiding them to develop into new muscle fibers, IGF LR3 can significantly boost muscle gains and prevent muscle loss. The liver can synthesize IGF-1 LR3 and it can package it with various binding proteins. It then makes it ready for transport into the blood. There are a couple of different variants when it comes to IGF-1 LR3 and these are all produced in the muscle. One of them is called the mechano growth factor and this plays a role in how much muscle you can gain over a set period of time. It works by spurring the activity of other muscles and these are called satellite cells. These help to repair any damaged muscles. In fact, if you do a lot of training then you may stimulate the release of IGF-1 LR3 in the muscle but when you take a look at myostatin, you’ll find that this prevents muscle from growing and this is all because of the satellite-cells and their own proliferation.

WHY USE?
The most important factor to consider is IGF-1 LR3’s ability to achieve hyperplasia in muscle cells resulting in fuller muscle tissue. These new cells can be utilized through further training to make muscles stronger. Essentially, you will have the ability to achieve more muscle density and size at the genetic level by using IGF-1 LR3. It helps stimulates muscle growth and increases regenerative functions of nerve tissue. Also, helps burn fat, increase protein transport into cells, and reduce protein breakdown. That is why many professionals and trainers use IGF-1 LR3 for high end performance benefits.

ADMINISTRATION AND DOSAGE
Use 1 vial 200mcg after exercise everyday for 6 days subcutaneously(under the skin). Another treatment can follow after 2 days break for best results. Mix with saline or sterile water.

SIZE
200mcg per vial

INGREDIENTS
IGF-1 LR3

STORAGE
Store below 30°C. Jar sealed for your protection
CoQ10

The essential antioxidant for performance

Coenzyme Q10 is an important and essential antioxidant for the cardiovascular system in horses and camels. Coenzyme Q10, also called ubiquinone, is a substance found in the body as a component of the mitochondrial respiratory chain. It works in concert with other substances to regenerate ATP (energy) in a cell. Coenzyme Q10 also functions as a powerful antioxidant and free radical scavenger. An antioxidant is a substance that gives up electrons easily and can act to neutralize harmful oxidants and free radicals.

Benefits:

• Energy production
• Healthy heart function
• Cardiovascular health
• Supports the immune system
• Slows down the degenerative effect on muscles and bones
• Maintains the function of body organs
• Overall health and well being

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WHAT IS CoQ10?
CoQ10 (Coenzyme Q10) is a vitamin-like substance which has a role in producing ATP, a molecule in cells that functions like a rechargeable battery in the transfer of energy. Coenzyme Q-10 is commonly used in treating inherited or acquired disorders that limit energy production in the cells of the body (mitochondrial disorders), and for improving exercise performance providing increased energy to cells.

HOW DOES IT WORK?
CoQ10 is a vital participant in the chain of metabolic chemical reactions that generate energy within cells. It is found in every cell of the body, but is present in higher concentrations in organs with higher energy requirements such as the kidneys, liver, and heart. Many medical studies demonstrate supplemental CoQ10’s beneficial effects, most of which stem from its vital role in oxygen utilization and energy production, particularly in heart muscle cells.

WHY USE?
An important antioxidant for the cardiovascular system and increase energy to cells hence improving performance. CoQ10 is critical for the body’s ability to make a substance called Adenosine Triphosphate (ATP). ATP is one of the most critical substances for creating energy - the body breaks it down into smaller molecules, and in doing so, a small amount of molecular energy is released. Without sufficient CoQ10, your body may not produce enough ATP, which may hinder it’s ability to create energy.

CoQ10 (or ‘co-enzyme q10’) plays a pivotal role in energy production, healthy heart function and cardiovascular health. It is naturally present in our bodies and is gained through diet typically through meat and fish. Our requirements for CoQ10 increase during times of stress, heavy physical exertion and as we age. During these times, a CoQ10 supplement can be of benefit to top your levels up.

SIZE
Available in 6 x 10 ml vials.

INGREDIENTS
Coenzyme Q 10 (CoQ10) 25mg/ml (10ml Vial)

ADMINISTRATION AND DOSAGE
Inject 2mL (50mg) IM as directed

STORAGE
Store below 25°C (Air conditioned)
Providing the winning edge with DMG

All serious owners and trainers should be using Dimethylglycine HydroChloride (DMG) as part of their performance program. Utilising DMG will see dramatic increases in oxygen uptake and therefore produces improved results and a faster recovery time after racing.

Benefits:

• Enhanced energy supply
• Increased oxygen utilization
• Decreased accumulation of lactic acid in muscle tissue
• Improve stamina and endurance
• Improve recovery after hard physical exercise
• Combats cardio-pulmonary insufficiency
  Improves poor circulation

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Products made in the USA and Germany. All shipping from USA

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WHAT IS DMG?
DMG (Dimethylglycine) is a naturally occurring nutrient often described as an ergonomic food factor or anti-stress nutrient. It is given as a supplement and has many benefits including improving oxygen utilization and reducing lactic acid formation in horses. DMG increases glycogen, creatine phosphate, phospholipid and total lipid content in cardiac and skeletal muscle. It also increases the tolerance to hypoxia, increases oxygen uptake by tissues, improves circulation and reduces lactic acid production during exercise. It is also indicated for cardio-pulmonary insufficiency and poor circulation.

DMG Injection acts as a key element in the biological pathway, which maximizes the amount of energy produced per molecule of oxygen consumed.

DMG Injection acts as an anti-oxidant, protecting cells from damage caused by free radicals (the waste products of energy production), and helps to enhance the immune response (so acts as an anti-stress nutrient).

DMG Injection transports oxygen for ATP production in muscle tissue.

HOW DOES IT WORK?
DMG increases glycogen, creatine phosphate, phospholipid and total lipid content in cardiac and skeletal muscle. It also increases the tolerance to hypoxia, increases oxygen uptake by tissues, improves circulation and reduces lactic acid production during exercise. It is also indicated for cardio-pulmonary insufficiency and poor circulation.

WHY USE?
Improves circulation and reduces lactic acid production during exercise to boost health and energy levels as well as revitalizing immunity.

Supplementing with DMG has a number of benefits for athletic animals: enhanced energy supply, increased oxygen utilization, and decreased accumulation of lactic acid in muscle tissue. Studies in both horses and camels have demonstrated the ability of DMG to improve stamina and endurance, as well as improve recovery after hard physical exercise.

DMG is also indicated for cardio-pulmonary insufficiency and poor circulation.

DMG supplementation is also used in human athletes to improve overall performance and endurance plus enhance oxygen utilization and to improve recovery.

SIZE
Available in 100ml vials.

INGREDIENTS
Dimethylglycine (DMG) 100 mg/ml (100ml Vial)

ADMINISTRATION AND DOSAGE
Adult horses: Administer 15ml daily by intravenous injection for 3 consecutive days prior to event.

STORAGE
Store below 25°C (air conditioning). Protect from light
Kynoselen Max

Where energy and endurance equals performance

Kynoselen Max is used for the protection, management and treatment of muscle disorders of horses. It can be used as an aid in the control of muscular dystrophy and also as a muscle stimulant. It supports muscle function and recovery during training and strenuous exercise and racing.

Benefits:

• Assists muscle repair and recovery after exercise
• Reduces the risk of tying up or cramping
• Optimises energy supply to hard working muscles
• Prevents fatigue and stress for travelling horses or camels over long distances
• Provides extra strength

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WHAT IS KYNOSELEN MAX?
Kynoselen Max is used for the protection, management and treatment of muscle disorders of horses. It can be used as an aid in the control of muscular dystrophy and also as a muscle stimulant. It support muscle function and recovery during training and strenuous exercise. Kynoselen Max is a blend of essential co-factors to ensure that muscle metabolism is optimised, and that energy supply to muscles is adequate, to reduce the risk of lactic acidosis, muscle fatigue and Tying Up. Provision of essential co-factors and nutrients at the correct time, and in the correct amounts, reduces the risk of muscle damage and decreased performance.

HOW DOES IT WORK?
ATP is the essential chemical for muscle contraction, releasing energy when it is broken down to ADP. The aspartates improve endurance by decreasing blood lactate and ammonia, thus delaying fatigue.

Vitamin B3 is essential in increasing the use of glycogen for energy, and arginine acts as a vehicle for transport, storage and excretion of nitrogen.

Lysine is very important in muscle repair. Selenium is an essential element of the enzyme which helps remove the free radicals produced during severe exercise. Vitamin B12 is essential for red blood cell turnover.

WHY USE?
Assists muscle repair and recovery after exercise. Reduces the risk of tying up or cramping. Optimises energy supply to hard working muscles. Prevent fatigue and stress when travelling horses or Camels long distances.

SIZE
Available in 100 ml vials.

INGREDIENTS
Each 100ml Vial contains: Disodic adenosine monophosphate (AMP) 0.2g, Sodium selenite (selenium) 0.05g, Magnesium aspartate 1.5g, Potassium aspartate 1.0g, Cyanocobalamin (vitamin B12) 0.025g

ADMINISTRATION AND DOSAGE
By intramuscular or subcutaneous injection.
Horses and Camels: Give 5 mL per 100 kg bodyweight Kynoselen Max once weekly.
Treatment: 20mL Every 3 days for 12 days

STORAGE
Store below 25°C (Air conditioned)
**PRE-RACE ACTIVATOR**

Premium Pre Race Formula

Pre Race Activator is a newly developed potent lactic acid muscle enzyme inhibitor. This formula that has been developed has unique actions by being able to create stamina and energy levels as well as offsetting muscle fatigue and reducing lactic acid build up. We have perfected this formula after a extensive trial period, we have had some outstanding results so far and now it is available for trainers of Horses and Camels around the world to use.

**Benefits:**

- Suppresses accumulation of lactic acid in muscle tissue
- Improve stamina and endurance
- Improve recovery after hard physical exercise
- Sustained energy levels for a longer period of time
- Enhanced energy supply
- Ideal preparation before any race/event or any session of intense exercise

![Pre Race Activator Bottle]

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**Products made in the USA and Germany. All shipping from USA**

Disclaimer: Any use of Advanced Equine and Camel Solutions products in this catalogue must adhere to the rules of racing and for importation in your state or country at all times. Products are not for sale in Australia.
Bulk Up is a superior muscle builder product with anabolic effects for horses and camels. The active ingredient of Bulk Up is Gamma Oryzanol. It is a mixture of sterols and ferulic acid esters, which are natural components of rice bran. It is an antioxidant, and supports the growth of lean muscle tissue and healthy levels of digestive enzymes.

Gamma Oryzanol is a collection of ferulated sterols, which the animal can metabolize to provide circulating ferulic acid. These ferulic acid esters are thought to have support healthy hormone function, resulting in anabolic effects on healthy muscle growth and normal recovery from fatigue. Studies have indicated that gamma oryzanol also activates the higher center of the endocrine system and the atomic nervous system, helping to promote healthy balance and support in both systems.

**Benefits:**

- Improves Muscle Strength
- Builds Muscle
- Athletic performance
- Anti-inflammatory Effect
- Lowers Blood Glucose and antioxidant
- Improves Insulin Sensitivity
- Improves Immune Response
- Weight Gain

"World’s Most Potent Gamma Oryzanol"

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WHAT IS BULK UP?

Gamma Oryzanol is a crystalline compound separated and extracted from Rice Embryo/Bran Oil with two major active molecules, Sterol and Ferulic acid. As a result of various studies, its hormone-like and growth-promoting functions have been confirmed. Later studies have indicated that gamma oryzanol activates the higher center of the endocrine system and the autonomic nervous system. It regulates both systems to maintain internal balance.

HOW DOES IT WORK?

Bulk Up reduces cholesterol levels by reducing absorption of cholesterol from food. It is also often promoted for treating menopause, but it is unclear how it would work for this use. Some researchers suspect it to be helpful due to effects on luteinizing hormone (LH). Also, builds muscle to the max, has an anti-inflammatory effect and increase in athletic performance.

WHY USE?

Trials in the US, Australia and Japan have shown Gamma Oryzanol has strong benefits on weight gain and performance, comparable to some anabolic steroids. Gamma Oryzanol stimulates the endocrine system in horses, resulting in increased metabolism of fat and increases synthesis of protein. This leads to a direct increase in lean body mass.

Further research in horses has confirmed that Gamma Oryzanol improves muscle to fat ratio and increases muscle definition in the rump, neck and over the withers. Clear improvements were also noted for maintained appetite and lower cholesterol levels due to Gamma Oryzanol being a natural and abundant source of synergistic Antioxidants Vitamin E including Tocopherols and Tocotrienols (the most active form of antioxidant).

ADMINISTRATION AND DOSAGE

For best results: Administer 1 rounded teaspoon (1,350mg) twice daily. Serving based on average horse weight of 400-500kg. When training young horses, use half of the recommended dosage.

Dosage: 1,350mg per dose - Bulk Up contains the purest and most potent Gamma Oryzanol in the world with over 90,000mg per ml.

STORAGE

Keep in cool environment. Store below 30°C (room temperature).
WHAT IS PRE-RACE ACTIVATOR?
It is a potent muscle enzymatic/Lactic acid formula as well as creating stamina and energy levels to create a unique product. We have perfected this formula after an extensive trial period, we have had some outstanding results so far and now it is available for trainers of Horses and Camels around the world to use.

HOW DOES IT WORK?
Active ingredients in pre-race activator include GTP and GNC Guanosine-5'-triphosphate (GTP) is a purine nucleoside triphosphate. It can act as a substrate for the synthesis of RNA during the transcription process or DNA during DNA replication. It also has the role of a source of energy or an activator of substrates in metabolic reactions. It is used as a source of energy for protein synthesis and gluconeogenesis.

Gluconeogenesis (GNG) is a metabolic pathway that results in the generation of glucose from certain non-carbohydrate carbon substrates. From breakdown of proteins, these substrates include glucogenic amino acids from breakdown of lipids (such as triglycerides), they include glycerol (although not fatty acids); and from other steps in metabolism they include pyruvate and lactate.

Gluconeogenesis is one of several main mechanisms used by humans and many other animals to maintain blood glucose levels, avoiding low levels (hypoglycemia). In vertebrates, gluconeogenesis takes place mainly in the liver and, to a lesser extent, in the cortex of the kidneys. In many other animals, the process occurs during periods of fasting, starvation, low-carbohydrate diets, or intense exercise.

WHY USE?
It has been widely known fact that if you can reduce the lactic acid levels within the system, you can maintain or sustain a burst of energy for a longer period of time. Hence a greater or improved racing performance. PRE RACE ACTIVATOR is the product we have been searching for to achieve this without raising the Bicarbonate levels or TCO2 levels.

SIZE
Available in 50ml bottles.

ADMINISTRATION AND DOSAGE
Treatment for horse give 50ml IV (intravenously) 4-6 hours before event.
Treatment for camels give 50ml IV (intravenously) 30 hours before race.

INGREDIENTS
GTP Guanosine 5 Triphosphate, GNG Gluconegenisis and a Patented Sequenced Amino Acid chain.

STORAGE
Storage store below 18°C keep out of direct sunlight.
Keep out of children’s reach, if seal is broken do not use.
GHRP 2

Energy and endurance increasing peptide

GHRP2 substantially stimulates the pituitary gland’s increased natural production of the body’s own endogenous human growth hormone (HGH). GHRP2 has shown on its own to robustly increase IGF-1 levels, and even greater results occurred when used with Growth Hormone Releasing Hormone (GHRH) to which also stimulates the pituitary gland to produce increased natural secretion of human growth hormone. This also boosts the hypothalamus function as well.

Benefits:
• Increases energy and vitality
• Increases endurance
• Accelerates healing from wounds
• Strengthens the heart
• Reduces fat through lipolysis
• Enhances the immune system
• Stimulation of hypothalamus
• Increases IGF-1 production, by as much as 50% in first week
• Increases calcium retention, strengthens and increases the mineralization of bone, bone density
• Increases protein synthesis

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GHRP 2: Growth Hormone Releasing Peptide
Purity: 98% (HPLC on request)
Molecular Formula: C42H50N8O5 Molecular Weight: 749.9 CAS No.: 87616-84-0
Sequence: H-D-Ala-D-2-Nal-Ala-Trp-D-Phe-Lys-NH2

Description
Growth Hormone Releasing Peptide-2 (GHRP 2) is a peptide made up of just six amino acids, which stimulates secretion of endogenous GH. Research shows GHRP 2 can stimulate the pituitary to increase secretion of GH by 7-15 times, stimulating ghrelin receptors to promote appetite. GHRP 2 acts as a synthetic ghrelin analogue that stimulates the release of an endogeneous growth hormone within the somatotropes of the anterior pituitary. Specifically, GHRP 2 will increase the number of somatotropes in a GH pulse by limiting the amount of somatostatin present while standard GHRH increases the amplitude at which the pituitary cells pulse.

The main effects of GHRP 2 are GH secretion, appetite enhancement, fat mass decrease and muscle mass increase, lowering of cholesterol level, skin and bone strengthening, protection of the liver and anti-inflammatory action. GHRP 2 possesses many repair properties that can be attributed to its immune boosting function. GHRP 2 has been shown to increase prolactin, aldosterone and cortisol levels and in some cases may not be the peptide of choice.

Protocol
Content and Potency: 1 x 5mL at 2000mcg/ml ready-to-inject subcutaneous.
Suggested dosage: 0.10ml daily 5 days out of 7 between 6 - 8pm (10 weeks supply).
Transdermal Option: 200mcg/mL x 50mL – Apply 1mL daily 5 days out of 7. (10 weeks supply).

Clinical Research
Source: The publisher’s final edited version of this article is available free at J Clin Endocrinol Metab
Abstract: GHRP 2 is a synthetic agonist of ghrelin, the newly-discovered gut peptide which binds to the growth hormone (GH) secretagogue receptor. Ghrelin has been shown to have two major effects, stimulating both GH secretion and appetite/meal initiation. GHRP 2 has been extensively studied for its utility as a growth hormone secretagouge (GHS). Animal studies have shown its effect on food intake. We subcutaneously infused 7 lean, healthy males with GHRP 2 (1μg/kg/h) or saline for 270 minutes and then measured their intake of an ad libitum, buffet-style meal. Similar to what has been reported for ghrelin administration, our subjects ate 35.9±10.9 % more when infused with GHRP 2 vs. saline, with every subject increasing their intake even when calculated per kg body weight (136.0±13.0 kJ/kg vs 101.3±10.5 kJ/kg, p=0.008). The macronutrient composition of consumed food was not different between conditions. As expected, serum GH levels rose significantly during GHRP 2 infusion (AUC 5550±1090 μg/L/240 min vs. 412±161 μg/L/240 min, p=0.003). This data is the first to demonstrate that GHRP 2, like ghrelin, increases food intake, suggesting that GHRP 2 is a valuable tool for investigating ghrelin effects on eating behaviour in humans.
GHRP6 is a true HGH

GHRP6 is a peptide and is among the growth factor hormones. It is made up of 28 amino acids and is a true growth hormone (HGH) secretagogue, which stimulates the body’s secretion of growth hormone (GH). Basically, GHRP6 tells the body to produce more HGH and IGF-1, which in turn promotes a huge range of benefits.

Benefits:
- Increase of muscle mass
- Increase in strength and stamina
- Decrease of body fat
- Helps bone tissue growth
- Makes liver secrete IGF-1, which helps in burning body fat and increasing muscle
- Anti-aging peptide
- Enhances immune response
- Strengthens joints, connective tissue, and body mass
- Quick effect on Ghrelin, which is tied to weight gain and insulin resistance

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GHRP 6: Growth Hormone Releasing Peptide
Purity: 98% (HPLC on request)
Molecular Formula: C46H56N12O6 Molecular Weight: 873.01 CAS No.: 873.01
Sequence: His-D-Trp-Ala-Trp-D-Phe-Lys-NH2

Description
GHRP 6 is not an active fragment of growth hormone releasing hormone (GHRH). It is one of several synthetic met-enkephalin analogs that include unnatural D-amino acids that were developed for their growth hormone releasing activity and are called growth hormone secretagogues. GHRP 6 is a true hGH secretagogue. Which means it stimulates the body’s own secretion of hGH as explained in the study below. Human Growth hormone has been shown in studies to promote lean body mass and reduce adiposity (fat). It is now known that these growth hormone releasing peptides are distinct from GHRH and do not act at the GHRH receptor, but instead act at the growth hormone secretagogue receptor, now renamed as the ghrelin receptor. It is for this reason (ghrelin like properties) patients being treated with GHRP 6 experience appetite stimulation. In therapy GHRP 6 is used to stimulate growth hormone production whilst increasing body mass. Patients deficient in growth hormone and underweight would be ideal candidates for GHRP 6.

Protocol
Content and Potency: 10mL (2 x 5mL) at 2000mcg/ml ready-to-inject subcutaneous (10weeks).
Suggested dosage: 0.2ml daily 5 days out of 7 or 0.1ml twice-daily 5 days out of 7 between 6 - 8pm. Transdermal Option: 200mcg/mL x 100mL – Apply 1mL twice daily 5 days out of 7

Clinical Research
Growth hormone releasing peptide (GHRP 6) stimulates phosphatidylinositol (PI) turnover in human pituitary somatotroph cells.
Lei T, Buchfelder M, Fahlbusch R, Adams EF.
Source: Department of Neurosurgery, University of Erlangen-Nürnberg, Germany.
Abstract: Growth hormone releasing peptide (GHRP 6) is a synthetic hexapeptide which specifically stimulates secretion of growth hormone (GH) by pituitary somatotrophs. The precise intracellular mechanism by which this is achieved has not been deciphered although it is known to involve protein kinase C (PKC) and Ca2+ but to be cAMP-independent. We have used cell cultures of human pituitary somatotrophinomas to demonstrate powerful effects of GHRP 6 on membrane phosphatidylinositol (PI) turnover, a second messenger system which leads to activation of PKC and mobilisation of intracellular Ca2+ reserves. Incubation of somatotrophinoma cells with GHRP 6 led to a dose-dependent stimulation of rate of PI turnover. GH secretion was increased in parallel. Effects were discernable after only 15 minutes incubation and rose to a maximum at 2 hours. PI turnover was stimulated by GHRP 6 in 8 of 8 tumours examined, effects ranging from 2.1 - 7.9 fold increases. Stimulation of GH secretion by GHRP 6 was independent of presence of gsp oncogenes, emphasising the cAMP-independent nature of its effects. These results provide evidence that the GH-stimulatory effects of GHRP 6 are achieved through activation of the PI second messenger system and thus support earlier findings that PKC and Ca2+ play central roles in mediating the effects of GHRP 6.
Acetyl L Carnitine

Supporting Cell Energy

L-Carnitine is a naturally occurring nutrient found in animals and plants. Horses and camels gain L-Carnitine through their diet or through the synthesis of amino acids. However, horses and camels will not usually be able to replace the extensive losses of L-Carnitine which occur in heavy or fast work. It is essential part of the performance athlete through energy metabolism.

Benefits:
- Increase exercise capacity of muscles.
- Essential transport system for use of fats as an energy source.
- Delay muscle fatigue
- Improve endurance.
- Essential for normal heart function.
- Recover more efficiently
- Improves overall performance

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WHAT IS ACETYLENE L-CARNITINE?
Acetylene L-Carnitine is an acetylated form of L-carnitine. It is naturally produced by the body of the animal, although is often taken as a supplement. Acetyl L-Carnitine is broken down in the blood by plasma esterases to carnitine which is used by the body to transport fatty acids into the mitochondria for breakdown.

HOW DOES IT WORK?
L-Carnitine (and Acetyl-L-carnitine) supports cellular energy metabolism by helping to transport fatty acids into the cell to be used as energy. Acetyl-L-carnitine also supports brain health. Nutrition researchers believe that Acetyl-L-Carnitine improves cognition by enhancing the activity of acetylcholine and/or increasing neuronal metabolism. ALC may also increase dopamine activity and enhance cerebro-vascular and cardio-vascular blood flow. It may also prevent the decrease of plasma testosterone associated with high training loads, and will likely have a positive effect on your Horse or Camels endogenous testosterone levels.

WHY USE?
Supports energy metabolism, supports brain health, and has a positive effect on your Horse or Camels endogenous testosterone levels.

SIZE
Available in 100ml bottles.

ADMINISTRATION AND DOSAGE
Via injection: 3ml per 100 kg bodyweight (15ml per average adult horse) by intravenous or intramuscular injection. Use 2 – 3 times weekly. Give the final dose 4-6 hours before hard or fast work. Veterinarians have reported significant improvement in horses using high doses of 20-25 ml twice weekly.

INGREDIENTS
L- Carnitine 200mg/ml (100ml Bottle)

STORAGE
Store below 25°C and protect from direct light
Extreme Pain and Anti-inflammatory Paste

P-Block + Paste has been scientifically formulated oral anti-inflammatory and pain management paste, utilizing the latest technology in the preparation and extraction of the active ingredients. This selected combination is providing optimal supplementation for the equine athlete. The ingredients and maturation process is the reason this breakthrough oral pain paste really works. P Block + Paste is 100% all-natural and drug free. It supports anti-inflammatory, pain and has fast recovery time from performance or exercise.

Benefits:

- Extreme Pain management paste
- Fast acting pain relief anti-inflammatory benefits
- Supports equine athletes to perform at its peak
- Extremely beneficial joint care
- 100% safe for competition and racing
- Easily absorbs in the stomach with no side effects.
- Pharmacy grade
- Suitable for all disciplines

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WHAT IS P-BLOCK + PASTE?
P-BLOCK + PASTE is a scientifically formulated oral anti-inflammatory and pain management paste utilizing the latest technology in the preparation and extraction of the active ingredients allowing the formula to be maturated for maximum results. This breakthrough natural pain formula is allowing owners, trainers of all codes and discipline in the equine athlete to perform regularly with less pain supporting anti-inflammatory benefits as well as extremely beneficial joint care with a accelerated recovery time from performance. It is 100% safe for competition and all the ingredients are clear of any banned substance. It is also easy to be absorb to the stomach with no side effects.

WHY DOES IT WORK?
It works because the ingredients and maturation process is the reason this breakthrough oral pain paste really works. See some key ingredient: Glycerine, Ananas Comosus, Viola Tricolor, Glucosamine Sulfate 2 KCl, Boswellia serrata extract, Humulas lupulus extract, Filipendula ulmoria Tincture, Salix Alba extract, Ribes nigrum extract, Urtica dioica extract, Zinger Officinal rosc extract, Curcuma longa extract, Chondroitin, Sodium Hyaluronate, PEG3350, Propylene Glycol and selected amino anti-inflammatory peptides.

HOW DOES IT WORK?
With the combination of all the selected ingredients, The P-Block + Paste reduces pain and provides anti-inflammatory benefits. It helps equine athletes to enhance their performance and relieves pain in joints before and after competition or racing.

Your horse uses this supplemental sulfur primarily as a source of sulfur. In your horse's body, the compound splits into methionine and cysteine, two important amino acids. Glucosamine sulfate helps ease the pain for horse's that suffers from bone and joints injury. Scientist have studied that is has an excellent result in relieving pain and anti-inflammatory.

Boswellia may interact with and decrease the effects of anti-inflammatory medications. Boswellia are generally rated on their concentration of boswellic acids. There are many more highly beneficial active ingredient supporting pain management and anti-inflammatory in P Block + Paste.

SAFE FOR USE?
P-BLOCK + PASTE is made from natural key ingredients and selected amino anti-inflammatory peptides. It does not and cannot swab. It is completely Drug and Chemical free and there are no possible side-effects.

IS IT LEGAL IN PERFORMANCE ANIMALS?
P-BLOCK + PASTE is 100% natural and drug free. It will not and cannot compromise any performance animal in any event or race it competes. It does not swab.

HOW TO USE?
For best results, use 1 60 gram tube 5 days before competition, another 1 60 gram tube 3 days before competition then 30 grams per week while racing or competition.

SIZE & AVAILABILITY?
Available in 60 gram paste
Also available in pack size 3 or 12
Equine Growth Hormone

EGH is an endogenous steroid hormone, produced by the adrenal glands, gonads, and brain. Its role is not fully understood, but it plays an important part in the synthesizing estrogen and androgen. It is an endogenous steroid hormone. This means it is naturally made by the body, and it spurs specific tissues or cells into action. It is also known as androstenolone, 3β-hydroxyandrost-5-en-17-one and 5-androsten-3β-ol-17-one. It is normally found in the form of dehydroepiandrosterone sulfate. The body holds it in reserve and converts it to specific hormones when needed.

Benefits:

- Boosts Hormone Levels
- Enhances athletic performance
- Organic and anabolic modifier
- Increase muscle mass and delays fatigue
- Increase resistance
- Decrease recovery time
- Strengthening the immune system
- Helps Protect Against Inflammation
- Helps Improve Bone Density and Muscle Mass

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Ketorolac

Chronic Pain Medication

Ketorolac reduces the production of prostaglandins, chemicals that cells of the immune system make that cause the redness, fever, and pain of inflammation and that also are believed to be important in the production of non-inflammatory pain. It does this by blocking the enzymes that cells use to make prostaglandins (cyclooxygenase 1 and 2). As a result, pain as well as inflammation and its signs and symptoms, redness, swelling, fever, and pain, are reduced.

Ketorolac is used for the short-term relief of moderately severe pain and should not be used for longer than 5 days, for mild pain, or for pain from chronic (long-term) conditions.

Benefits:

- Acute pain relief
- Reduce Chronic pain
- Helps to decrease swelling, pain, or fever
- Anti-inflammatory

Note: 10 days withholding. Do not use 10 days before competition.

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WHY USE?
Ketorolac is almost entirely bound to plasma proteins (>99%), which results in a small apparent volume of distribution with extensive metabolism by conjugation and excreted via the kidney. The analgesic effect occurs within 30 minutes, with maximum effect between 1 and 2 hours and duration of 4 to 6 hours. Ketorolac demonstrates analgesia well beyond its anti-inflammatory properties, which are between those of indomethacin and naproxen; but ketorolac can provide analgesia 50 times that of naproxen. Ketorolac has antipyretic effects 20 times that of aspirin and, thus, can mask a febrile response when administered during the postoperative period.

ADMINISTRATION AND DOSAGE
Intra-venus: 3-5ml per horse intra-venus per day for 5 days. Stop minimum of 8-10 days before competition. Suitable for horses and camels.

SIDE EFFECTS:
Please see Internet for all known side effects.

SIZE
Available in 50ml.

INGREDIENTS
Ketorolac Tromethamine

STORAGE
Should be stored in cool conditions, do not freeze and keep out of sunlight. Keep out of reach of children.

Vet Use Only

Disclaimer: Any use of Advanced Equine and Camel Solutions products in this catalogue must adhere to the rules of racing and for importation in your state or country at all times. Products are not for sale in Australia.
WHAT IS EGH?
EGH works like a natural anabolic steroid, since it boosts production of natural growth hormones that help build lean muscle mass and fight fat accumulation. That’s why the supplement form is popular among horse athletes. It also helps improve bone density, promotes heart health, controls cholesterol levels, fights fatigue and improves production of important sex hormones like testosterone and estrogen. EGH supplements are often used to help promote weight loss and to support athletic training with a focus on building lean muscle mass.

HOW DOES IT WORK?
EGH is a hormone that’s produced by your body. Some of it is converted into the major male and female sex hormones testosterone and estrogen. Its effects can be driven by the actions of testosterone and estrogen after this conversion occurs, as well as by the molecule itself. Given that it is produced naturally, some wonder why it’s consumed as a supplement. The main reason is that the levels decrease as you age, and this decrease is associated with several diseases.

WHY USE?
EGH is a supplement often are marketed as a "superhormone", immune-boosting, and cognitive benefits. It also helps to improve physical performance and to speed-up wound healing. It is a “hormone” naturally made in the body by the adrenal glands near the kidneys and by the liver. It also helps to make male and female sex hormones within the body. It activates receptors that influence how we metabolize and store fat.

SIZE
250mg per vial

ADMINISTRATION AND DOSAGE
Horses: 5 ml each week for 1 months – IM
Camels: 2.5 ml every week for 1 month – IM

INGREDIENTS
DHEA

STORAGE
Keep in cool place and out of direct sunlight. Do not keep in fridge if you get crystallized. Please use warm water over the bottle to turn back to liquid.
Veterinary Use Only.
Enduro-BLAST

Ultimate Performance Blast

Enduro-Blast has been scientifically developed to producing a significant increase in blood supply to muscles and the heart, and hence increases yet regulates the oxygen release of red blood cells and essential nutrient supply to these areas during racing and competition and training including hard work. It also improves the efficiency of the removal of waste products such as lactic acid, to delay the onset of muscle fatigue and therefore increase stamina which is essential for peak performance.

Benefits:

- Increases blood flow
- Increases blood supply to muscle tissue
- Prevents heart strain
- Delays the onset of muscle fatigue and cramping
- Increases maximum energy capacity
- Improves performance
- Regulates oxygen release in red blood cells
- Reduces lactic acid
- Improves stamina

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Products featured in this catalogue are strictly for animal use only. You must follow the recommended dosage and application method as per the detailed instructions. Always purchase and consult with your veterinarian where applicable.

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WHAT ENDURO BLAST?
Enduro Blast is a scientifically developed supplement which combines the benefits of ITPP (Myo-inositol trispyrophosphate), AMP-5 (Adenosine-5-monophosphate) and a specifically selected enzyme. ITPP is a synthetic allosteric effector of hemoglobin which increases the regulated oxygen releasing capacity of red blood cells leading to increased energy and performance and AMP-5 is a potent natural vasodilator which increases blood circulation to both skeletal and cardiac muscle. It can be used in anticipation of severe cardiac load in athletic animals or as a treatment for myocardial oxygen deficit.

HOW DOES IT WORK?
Enduro Blast modifies the hemoglobin in the red blood cell to release more oxygen as the red blood cell enters tissues which require oxygen. It also increases the essential nutrient supply to the muscles and heart during hard work as well as improves the efficiency of waste product removal such as lactic acid delaying the onset of muscle fatigue (i.e. of value in treatment and prevention of Tying Up). Because of its potent vasodilation effect on cardiac muscles, it is also effective in treatment and prevention of heart strain and exercise induced “T Wave” changes in horses.

WHY USE?
Delays the onset of muscle fatigue and cramping to allow the animal to train and race for longer periods and to prevent severe cardiac load. It also increases blood flow, energy, blood supply to muscle tissue and prevents heart strain. Increases the normal energy levels of the horse or camel to significantly improve performance in high intensity activities.

SIZE
Available in 50ml bottles.

INGREDIENTS
Myo-inositol trispyrophosphate (ITPP), Disodic adenosine monophosphate (AMP), Selected Enzyme

ADMINISTRATION AND DOSAGE
Administer 10mL daily by intramuscular injection
SHAKE WELL BEFORE USE.

STORAGE
MUST BE refrigerated.
Store between 3-8°C
Improve your performance animal to be in the best possible condition

A new treatment in the improvement of blood circulation and prevention of potential clotting. It also improves in overall function of mind and body performance of the Horse or Camels using Cardio Max. It contains an active ingredient of Gingko Biloba and GRF Peptide which is widely known for its amazing ability to improve conditioning of arteries and veins in regards to blood flow, and clotting, which is vital for high performance Horse and Camels in the racing industry. It allows them to adapt and react to differing environmental condition such as the pressures of a major race. Cardio Max also had a profound impact on blood circulation which assists with the recovery after hard work and repair in the case of ailment.

Benefits:
- Prevents diseases
- Anti-ageing
- Anti-oxidating properties
- Reduces blood pressure
- Improves blood circulation
- Powers the heart
- Boots energy and health

Cardio Max
5x5ml vials per box

Intravenous Drip Use Only

Effects & Benefits:
* Improves blood circulation
* Reduces blood pressure
* Boosts energy and health
* Powers the heart
* Prevents disease
* Antioxidating properties
* Anti-ageing

Usage:
Put up 3-5 vials into 1 litre of saline solution 3-4 days before competition

For Research Purposes Only
Suitable for Horses and Camels

Brought to you by:
Taylormade Horse Supplies

Exp: 10.2022
Batch: 165288E1

5 in a box

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WHAT IS CARDIO MAX?
Cardio Max is a unique complex solution with an active ingredient Ginkgo Biloba and GRF selected Peptide sequence, also known as the maidenhair tree. The plant has a number of therapeutic properties and contains high levels of flavonoids and terpenoids, these are antioxidants that provide protection against oxidative cell damage from harmful free radicals.

HOW DOES IT WORK?
CARDIO MAX is essentially composed of selected aminos (GRF) and flavonoids (which are considered to be powerful antioxidants that slow down the aging of cells) but also Ginkgolides and Bilobalides, whose role is to prevent the formation of blood clots, while at the same time improving venous circulation. Ginkgolides and Bilobalides also play a powerful role in improving blood circulation.

WHY USE?
CARDIO MAX is clinically proven to protect the metabolism and the healthy functioning of the animal's body and organs, also supports and improves arterial and venous circulation and therefore provides better blood flow. It slows down the aging of cells and improves the blood circulation making the brain and body much more alert, as well as more able to respond to the different needs of the horse or camel in different situations which is key in high performance racing conditions.

ADMINISTRATION AND DOSAGE
Put up to 3-5 vials into 1 litre of saline solution 3-4 days before competition.

SIZE
5 x 5ml vials per box.

INGREDIENTS
Complex solution with active ingredient Ginkgo Biloba and GRF selected Peptide sequence.

STORAGE
CARDIO MAX should be stored below 25°C protect from direct sunlight.
CJC 1295 Stimulates Growth Hormone Secretion. By using CJC 1295 on horses or racing camels will significantly increase the overall performance of the animal athlete.

With over 30 amino acid chain which increases HDH and IGF-1 therefore increasing muscle, strength, growth and stamina.

Benefits:
- Gaining and repairing muscle
- Increase growth
- Organ restoration
- Reducing body fat
- Strengthening the immune system and bones
- Increased stamina and performance
- Long acting growth hormone

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Disclaimer: Any use of Advanced Equine and Camel Solutions products in this catalogue must adhere to the rules of racing and for importation in your state or country at all times. Products are not for sale in Australia.
Conclusions: Subcutaneous administration of CJC 1295 resulted in sustained, dose-dependent increases in GH and IGF-I levels in healthy adults and was safe and relatively well tolerated, particularly at doses of 30 or 60 ug/kg. There was evidence of a cumulative effect after multiple doses. These data support the potential utility of CJC 1295 as a therapeutic agent.

CJC 1295: Growth Hormone Releasing Peptide
Purity: 98% (HPLC on request)
Molecular Formula: C165H269N47O46 Molecular Weight: 3647.15 CAS No.: 863288-34-0

Description
CJC 1295 has shown some amazing results as a growth hormone releasing hormone (GHRH) analog. Not only has CJC 1295 shown potential to increase growth hormone and IGF-I secretion and effects, but it has been able to do so in very large amounts. CJC 1295 Stimulates Growth Hormone Secretion, and will keep a steady increase of HGH and IGF-1 with no increase in prolactin, leading to fat loss, and increased protein synthesis thereby promoting growth.

CJC 1295 is a tetrasubstituted 30-amino acid peptide hormone, primarily functioning as a growth hormone releasing hormone (GHRH) analog.

One of the advantages of CJC 1295 over traditional GHRH or rHGH is its ability to bio conjugate with serum albumin, thus increasing its half-life and therapeutic window. It accomplishes this by using protecting groups around the amino acids of GHRH typically susceptible to enzymatic degradation.
CJC 1295 can be compounded in two forms (DAC and non-DAC). Drug affinity complex (DAC) prevents enzymatic degradation thus increasing the half-life. Consequently CJC 1295-DAC can be dosed as a single weekly injection. Administration of CJC 1295-DAC provides a GHRH-like stimulation around the clock. Another benefit of CJC 1295 is its ability to promote slow wave sleep. Slow wave sleep is also known as deep sleep and is the portion of sleep responsible for the highest level of muscle growth and memory retention. Clinical studies have shown that a once-daily administration of CJC 1295 normalizes the GHRH response and can induce significantly deeper sleep.

Dosing Protocol
Content and Potency: 1 x 5mL at 2000mcg/ml ready-to-inject subcutaneous.
Suggested dosage: 0.10ml per day 5 days out of 7 (NON-DAC) between 6 - 8pm (10 weeks supply).
Transdermal Option: 200mcg/mL x 50mL – Apply 1mL daily 5 days out of 7 (10 weeks supply).

Clinical Research
Prolonged Stimulation of Growth Hormone (GH) and Insulin-Like Growth Factor I Secretion by CJC 1295, a Long-Acting Analog of GH-Releasing Hormone, in Healthy Adults
Sam L. Teichman, Ann Neale, Betty Lawrence, Catherine Gagnon, Jean-Paul Castaigne, and Lawrence A. Frohman.
WinPharm Associates (S.L.T., A.N.), Alamo, California 94507; ConjuChem, Inc. (B.L., C.G., J.-P.C.), Montre´al, Que´be´c, Canada; and Section of Endocrinology, Department of Medicine, University of Illinois (L.A.F.), Chicago, Illinois 60612
Context: Therapeutic use of GHRH to enhance GH secretion is limited by its short duration of action.
Objective: The objective of this study was to examine the pharmacokinetic profile, pharmacodynamic effects, and safety of CJC 1295, a long-acting GHRH analog.
Design: The study design was two randomized, placebo-controlled, double blind, ascending dose trials with durations of 28 and 49 d.
Conclusions: Subcutaneous administration of CJC 1295 resulted in sustained, dose-dependent increases in GH and IGF-I levels in healthy adults and was safe and relatively well tolerated, particularly at doses of 30 or 60 ug/kg. There was evidence of a cumulative effect after multiple doses. These data support the potential utility of CJC 1295 as a therapeutic agent.
An ALL natural, scientifically formulated product that increases the oxygen carrying red blood cells throughout the body. One of the latest scientific advances and breakthroughs capturing the attention of horse trainers around the world is BIO BLOOD BUILDER. BIO BLOOD BUILDER has been developed by our research and development team for several years, it is now being made available for the first time owners and trainers as it the most potent and safest blood builders available in the world today.

Benefits:

- Increase blood oxygen content and maximal oxygen uptake
- Prompt increase in red blood cells
- Improve muscle performance
- Improve oxygen delivery to tissues
- Increases speed
- Increases endurance
- Faster recovery

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PRODUCT FACT SHEET

PRODUCT OVERVIEW
One of the latest scientific advances and breakthroughs capturing the attention of horse trainers around the world is BIO BLOOD BUILDER, the latest development in the equine industry and is the most potent and safest blood builders available in the world today. It is a specially patented pending sequenced amino acid chain, with a super molecule of B12. BIO BLOOD BUILDER has been developed by our research and development team for several years, it is now being made available for the first time owners and trainers in the equine world.

Amino acids naturally occur within the body, with over 50% of it being made up of amino acids. We have specifically targeted the blood building aminos within the amino acid chain and specially formulated a sequence that is naturally produced within the body. We have discovered a breakthrough molecule that is derived from a unique special filtration process, that is very potent from within the B12 family, which functions to stimulate the production of new red blood cells in combination together it raises Haemoglobin (HGB) and Haematocrit (HCT) levels significantly.

Increasing the amount of red blood cells increases the oxygen carrying capacity of the blood to deliver more oxygen to the exercising muscles during racing or competition.

The extra oxygen significantly increases the muscles’ energy production and can therefore help to improve athletic performance and output ability; higher intensity and longer duration.

This scientific breakthrough has put BIO BLOOD BUILDER as the world’s newest and most potent blood builder on the market today. With illegal blood boosting products on the market that have led to the widespread use of synthetic EPO, Cobalt Chloride, Cobalt Sulphate and Aranesp, etc. which have resulted in a number of positive tests for trainers around the world.

The equine racing industry worldwide has been waiting for a potent all natural blood builder that is safe and carries no banned substances and therefore does not swab. BIO BLOOD BUILDER now provides the optimum blood building product the racing industry has been searching for, which can be used in full confidence in any discipline around the world.

WHAT IS BIO BLOOD BUILDER?

BIO BLOOD BUILDER is what the equine industry has been searching for, this uniquely formulated potent blood builder sets itself apart from every other builder market today. BIO BLOOD BUILDER is a potent formulated blood builder. It increases athletic performance by creating more red blood cells which then produce more oxygen for the body to uptake during competition.

WHY USE BIO BLOOD BUILDER?

BIO BLOOD BUILDER is the most potent all natural, drug free and safe for competition and carries no banned substances. BIO BLOOD BUILDER uses state of art technology pharmacy grade ingredients to deliver the world’s leading scientifically advanced formulated blood builder available on the market today. BIO BLOOD BUILDER helps increase blood count, performance, appetite and general wellbeing.

INGREDIENTS INFORMATION

BIO BLOOD BUILDER has a patented pending specially formulated sequenced chain of selected amino acids. It also has a super Cyanocobalamin molecule derived from a special unique filtration process.

IS BIO BLOOD BUILDER LEGAL?

Not only is it made to the purest form it is 100% safe and will not swab GUARANTEED! It is all natural and has no prohibited substances in it. You can be assured that you can use this product with confidence in any discipline anywhere in the world.

ADMINISTRATION AND DOSAGE FOR BIO BLOOD BUILDER

Horses in training give 10ml IM weekly and if racing that week 3 days before competition.

SIZE AND AVAILABILITY

BIO BLOOD BUILDER is available in a 6 pack box of 10ml vials, single vial purchases are available.

STORAGE

BIO BLOOD BUILDER should be stored in a refrigerator at 4°C. Do not freeze, do not expose to sunlight. Keep out of reach of children.
In today’s times, advancement in science is happening all the time especially when you’re dealing in medications and supplementations for the benefit of horses. Enduro-500 is the most advanced multi potent muscle enzyme product available. This breakthrough technology provides a triple mode of action horses, as it fuels the muscles as well as supports the cardio-vascular system and also assists in the respiratory function. The all-natural formula allows trainers to use it in total confidence and safety as there are no banned substances. If your horse ties up or just can’t finish off its race, then you need to use Enduro-500 now and see for yourself.

Benefits:
- Increases endurance
- Prepares and fuels the muscles
- Assists the cardiovascular system and respiratory function
- Reduce inflammation
- Removes lactic acid build up in muscles
- 100% drug free
- Contains no prohibited substances
- Improves overall performance

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Product Overview
Revolutionary Enduro 500 is the only product on the market today that prepares and fuels the muscles, cardiovascular system and assists in the respiratory function of our Equine and Camel athletes. Enduro 500 will revolutionise the racing scene as we know it today, with its advanced scientific research and development that has finally come to fruition after years of trials.

We have created what is best described as a nutritional formula that directly feeds into the (Krebs cycle or Citric acid cycle) supplying your equine and camel athletes with the fuel they require to perform to very best of their ability.

Fact Sheet
Equine exertional rhabdomyolysis (Tying-Up). ER occurs when there is an inadequate flow of blood to the muscles of an exercising horse. The muscle cells, lacking in oxygen, begin to function anaerobically to produce the needed ATP. The anaerobic work creates a buildup of waste products, acid, and heat. This subsequently alters the cell by preventing the cell’s enzymes from functioning and the myofilaments from efficiently contracting. The cell membranes may then be damaged if the horse is forced to continue work, which allows muscle enzymes and myoglobin to leak into the bloodstream.

The citric acid cycle – also known as the tricarboxylic acid (TCA) cycle or the Krebs cycle – is a series of chemical reactions used by all aerobic organisms to generate energy through the oxidation of acetate derived from carbohydrates, fats and proteins into carbon dioxide and chemical energy in the form of adenosine triphosphate (ATP). In addition, the cycle provides precursors of certain amino acids as well as the reducing agent NADH that is used in numerous other biochemical reactions. Its central importance to many biochemical pathways suggests that it was one of the earliest established components of cellular metabolism and may have originated abiogenically. The name of this metabolic pathway is derived from citric acid (a type of tricarboxylic acid) that is consumed and then regenerated by this sequence of reactions to complete the cycle. In addition, the cycle consumes acetate (in the form of acetyl-CoA) and water, reduces NAD+ to NADH, and produces carbon dioxide as a waste product. The NADH generated by the TCA cycle is fed into the oxidative phosphorylation (electron transport) pathway. The net result of these two closely linked pathways is the oxidation of nutrients to produce usable chemical energy in the form of ATP.

In eukaryotic cells, the citric acid cycle occurs in the matrix of the mitochondrion. In prokaryotic cells, such as bacteria which lack mitochondria, the TCA reaction sequence is performed in the cytosol with the proton gradient for ATP production being across the cell’s surface (plasma membrane) rather than the inner membrane of the mitochondrion.

Why Use ENDURO 500
Enduro 500 prepares and fuels the muscles of our Equine and Camel athletes, it assists the cardiovascular system and respiratory function allowing it to work in perfect harmony. It has the ability to reduce inflammation and Lactic acid build up in muscles, which allows the competitive animal to excel and perform to the best of its ability.

Is It Legal in Performance Animals?
ENDURO 500 is 100% drug free and it contains no prohibited substances and it does not swab, it is totally safe to use in all forms of competition. All users must adhere to the rules of racing in their country or state.

Active Ingredients in ENDURO 500
Alpha-Ketoglurate, Aspartates, Inosine, Malic Acid, NADH, Pyruvate.
These ingredients then are processed with our patented maturation technology.

Performance Dosage:
Give 10ml IV or orally 24hrs before and then 5hrs before competition.
If it is used IV, it must be administered by a licensed professional.

Training Aid:
Use 10ml before workout and then 10ml after workout.

Storage:
ENDURO 500 should be kept in a cool dark room and out of sunlight.
Scientifically Proven Results

Pentosan Platinum is a sterile solution formulated as an aid in the treatment of non-infectious inflammatory joint disease in horses. It is indicated as an aid in the treatment of non-infectious, inflammatory joint disease in the horse. Clinical applications include the following conditions: osteoarthritis, osteochondritis dissecans (OCD), traumatic joint and periarticular inflammation. If used in performance animals, the regulations of the relevant authorities regarding medication should be observed. It is used to treat pain/discomfort from a certain bladder disorder (interstitial cystitis). It may work by forming a layer on the bladder wall and protecting it from harmful/irritating substances in the urine.

Benefits:

- Reduces pain, swelling, stiffness in joints and inflammation for a large variety of injuries and conditions.
- Long acting pain reliever
- Fast recovery from hard exercise from training or racing
- Anti-inflammatory activity
- Inhibition of neutrophil migration into the joint.
- Stimulation of hyaluronic acid synthesis by synovial fibroblasts, resulting in increased volume and viscosity of synovial fluid.
- Stimulation of proteoglycan synthesis by chondrocytes.
- Fibrinolytic activity, resulting in improved circulation to subchondral bone and periarticular structures.

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WHAT IS PENTOSAN PLATINUM?

Pentosan polysulfate sodium (PPS) is a semi-synthetic polysaccharide with a linear xylan (pentosan) backbone. Xylan is a hemicellulose derived from plant origin by extraction from the cell walls of hardwoods. PPS possesses anti-inflammatory, anti-arthritic and chondroprotective activities.

HOW DOES IT WORK?

Pentosan Platinum actively reverses the effects of osteoarthritis in the joints via a series of actions including:

1. **Stimulating Chondrocyte Metabolism**: Results in increased production of proteoglycans and healthy cartilage matrix. PPS stimulates synovial fibroblasts and produces an increased amount of high molecular weight hyaluronic acid which results in an increased production of normally viscous joint fluid. Improving the fluid volume and consistency results in more effective joint lubrication and also stabilisation, which limits further cartilage damage.

2. **Anti-inflammatory Activity**: PPS has an inhibitory action on all mediators of the arachidonic acid cascade. PPS also inhibits the lysosomal catabolic enzymes histamine, hyaluronidase, cathepsin B, and polymorphonuclear elastase. PPS exerts a specific inhibitory effect on mediators implicated in the degradation of cartilage matrix components, preserving the cartilage and thus preventing the release of the highly inflammatory mediators, which relieves pain and inflammation.

   (c) **Fibrinolysis and Lipolysis**: PPS is strongly fibrinolytic, stimulating the release of plasminogen activator and promotes the dissolution of thrombi and fibrin deposits in synovial tissues and subchondral blood vessels. PPS also mobilizes lipids and cholesterol in synovial and subchondral blood vessels, which have been implicated in the pathogenesis of osteoarthritis in older animals. These effects combine to increase the pre-fusion to the joint, which stimulates cartilage healing and repair

WHY USE?

Pentosan Platinum works like an anticoagulant (blood thinner) that prevents the formation of blood clots. However, it is used to treat bladder pain and discomfort caused by cystitis (bladder inflammation or irritation).

SIZE

Available in 50ml

ADMINISTRATION AND DOSAGE

Intra-articular - 1mL by aseptic intra-articular injection. Injections may be repeated once weekly for 3 to 4 injections. More than one joint may be treated at a time. The horse should be rested for 2 weeks after the final injection, followed by a further 2 weeks of graded walking exercise before returning to work.

Intramuscular - 3mg/kg bodyweight (6mL/500kg horse) by intramuscular injection on four occasions with an interval of 5-7 days between injections.

INGREDIENTS

Active constituent Pentosan Polysulfate Sodium 250mg/ml.

STORAGE

Should be stored in refrigeration, do not freeze and keep out of sunlight. Once opened, Pentosan Platinum must be used within 28 days.
GW-1516

Proven Performance Compound

GW-1516 is a proven performance compound that is used for all situations of performance and competitive horses and camels. It stimulates glucose uptake and skeletal muscle tissue. It burns fat by stimulating fatty acid oxidation. It can be used to increase the performance of running endurance and it has been suggested to play a role in burning fat for energy rather than carbohydrates or muscle protein.

Benefits:

- Enhances endurance
- Very high energy levels
- Train harder for longer
- Decreases recovery time
- Fast acting
- Long lasting
- Increased fat metabolism for extra energy
- Overall of health and wellbeing

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**WHAT IS GW-1516?**

GW-1516 is a peroxisome proliferator-activator receptor agonist. This drug regulates fatty acid oxidation in a number of tissues such as skeletal muscle and adipose tissue. It can be used to increase the performance of running endurance and it has been suggested to play a role in burning fat for energy rather than carbohydrates or muscle protein.

**HOW DOES IT WORK?**

GW-1516 has the ability to regulate fatty acid oxidation in many of the body’s tissues including skeletal, muscle and adipose tissues. GW-1516 works best when combined with moderate to heavy daily aerobic exercise. Regular training will bring faster and better results with this compound. GW stimulates glucose uptake and skeletal muscle tissue. It burns fat by stimulating fatty acid oxidation. It’s suggested as a potential treatment for obesity because of its ability to rapidly melt fat. Also, Cardarine is said to increase HDL by an average of 79% (good cholesterol) and decrease LDL (bad cholesterol) in current Phase II trials. GW 501516 is a PPARδ agonist. These help increase your HDL levels from an enhanced expression of the cholesterol transporter ABCA1.

**WHY USE?**

Increases the endurance of performance horses. Those wanting a dramatic increase in endurance levels will find that GW-1516 delivers. It takes effect very quickly and the results can be staggering. As a direct consequence of this increased endurance, fat metabolism also increases.

**SIZE**

Available in 5ml vials.

**INGREDIENTS**

GW-1516 15mg/ml (5ml)

**ADMINISTRATION AND DOSAGE**

2.5-5ml per day Intramuscular

**STORAGE**

Store below 25°C (Air conditioned). Avoid direct light.
Peak Performance

Pre-race paste is 100% natural, drug, and chemical free. It provides key nutrients that would increase the performance of the equine athlete during exercise and competition. It reduces the risk of critical nutrient deficiency that can limit the performance and exercise capacity. The vitamins, minerals and Anti-Oxidants combined with selected peptides promotes muscle strength and protects the cells from hard training, racing, and competition. It also builds nutrients to support energy production and endurance for peak performance when you really need it most.

Benefits:

- Provides nutritional support at the moment of competition
- Maximizes your horse’s performance
- Ensures nutrient exhaustion does not cause premature fatigue
- Promotes continuous, sustained energy generation during performance
- Faster uptake and loading of energy and glucose into cells for maximum results.
- Reduces muscle and cell membrane damage during intense exercise.
- Protects cell membranes from free-radical oxidant damage

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Developed and designed by world’s leading equine sports scientist Professor Allan Davie, and Dr. Jenny Stewart.

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WHAT IS PRE RACE PASTE?
PRE-RACE PASTE is a veterinary formulation of ANTI-OXIDANTS, B-VITAMINS and minerals, combined with peptides to prime muscles for exercise, racing, competition, training and work. Providing key nutrients before exercise ensures blood levels are high and ready to meet the demands of the muscle and body as they strive for peak performance. It prepares the blood and muscle systems for exercise and recovery. The specific peptide profile, anti-oxidants, minerals and B-vitamins are selected for their roles in energy production, muscle development and cellular protection - building the arsenal of first-class nutrients called for to support energy output and stamina. Deficiency and depletion of critical nutrients during exercise can reduce exercise capacity. It reduces the risk of critical nutrient deficiency that can limit performance.

WHY DOES IT WORKS?
Exercise capacity and the onset of fatigue are affected by the moment-to-moment muscle demand for energy, maintenance of homeostasis and by the level of protection provided by the anti-oxidant defence systems. Supporting these dynamic cellular processes is fundamental to delaying the onset of fatigue. Correct nutritional before work can ensure support for these processes - and in combination with the exercise can trigger up-regulation of genes fundamental for energy generation and muscle growth. The anti-oxidant defence system has an absolute requirement for magnesium, copper, zinc and vitamins B and C. Boosting the availability of substrates central to peak muscle and nerve function, and ensuring the nutrients required for cellular protection are presented to the cells as they require them, is imperative for realisation of genetic potential during the crucial moments of when sustained peak performance is imperative.

HOW DOES IT WORKS?
The profile of amino acids and array of substrates combined in PRE-RACE PASTE provides the biochemical and physiological stimulus for insulin release and genetic responses for new amino acid (protein) formation. Insulin has profound anabolic actions, promoting growth hormone release and priming muscles for peak performance and assisting in recovery. As with all power stations, potentially toxic by-products are released during intense energy generation. These damaging waste products, known as oxidants and free-radicals, hamper biochemical pathways and cause damage to cell membrane integrity - central to the onset of fatigue.

PRE-RACE PASTE provides the requisite anti-oxidant vitamins and minerals that scavenge and inactivate free-radicals. Delivering these crucial substrates before exercise boosts the arsenal the horse needs to defend and protect cell membranes from oxidant damage.

The combination of gluconeogenic and branched chain amino acids and peptides with anti-oxidant enhancement allows the horse to react and respond to the second-to-second demands of peak performance - protecting against critical nutrient exhaustion and performance-limiting fatigue.
What does Pre-Race Paste achieve?
Continuous nutrient and substrate availability underpin muscle function during peak performance. PRE-RACE PASTE achieves the delicate balance of timing nutrient support, which is critical for moment-to-moment performance.

All equine quests and endeavours that require peak performance must address the onset of fatigue. A fall in the ability to sustain continuous energy production, combined with accumulation of damaging free-radical oxidants is at the centre of muscle fatigue. Therefore ensuring energy production and inactivation of damaging free-radical forms of oxygen, is central to assist in the prevention of the onset of fatigue.

PRE-RACE PASTE makes sure the specific peptides, hormones, vitamins and minerals fundamental to sustained energy generation and inactivation of free-radicals are available the moment the cells, muscles and biochemical pathways require them. Given before exercise, PRE-RACE PASTE ensures these nutrients are uploaded into the blood stream ready for when they are demanded — preventing nutrient deficiencies and exhaustion of body stores does not induce early onset fatigue and helping horses reach the potential so carefully nurtured.

The Product
Is formulated specifically to support sustained energy generation AND protect against the by-products of energy generation.

Side Effects?
PRE-RACE PASTE is made from peptides, vitamins, minerals and amino acids naturally present in the body. It does not and cannot swab. It is completely Drug and Chemical free and there are no possible side-effects.

Is it Legal in Performance Animals?
PRE-RACE PASTE is 100% natural, drug and chemical free. It will not and cannot compromise any performance animal in any event or race it competes. It does not swab. However, the rules of racing must apply in state or country at all times.

Size & Availability?
Available in 60 gram paste

How often can it be Used?
PRE-RACE PASTE can be used before each exercise session. Maximum benefits occur when given within 4 hours of commencing exercise. This ensures blood levels of critical nutrients are optimum during work when the muscles demand them.

The vitamins, chromium, minerals, amino acid array and peptide profile has been selected to promote muscle glucose loading and protect cells from exercise-induced free-radical damage.

Associate Professor Allan J. Davie

Associate Professor Allan Davie has extensive practical and research experience. In recent years he has concentrated on determining the relationship between genotypes and phenotypes, at optimising training methods, examining the biological mechanisms of hypoxia training, and training processes to minimise the rate of injuries and promote welfare of equine athletes. As part of this research into training methods and genetic responses to training he has seen the need for a supplement with the potential to maximize the benefits of the responses of the muscle to a training stimuli. The Pre-race paste formulated has been based on research done within the human field that has shown the improved benefits of providing the right diet constituents (primarily amino acids) at the right time both before and after exercise. Protein ingestion provides the building blocks (indispensable amino acids) for an increase in muscle protein synthesis and suppression of muscle protein breakdown to give a net positive protein balance. The key amino acids triggering this process have been included in the Pre-race paste with their role in stimulating the mechanistic target of rapamycin complex-1, a key signalling protein that controls protein (muscle) growth.
Oral bronchodilator and antibacterial for the treatment of respiratory diseases in horses

Oral Administration In Horses
One level scoop (9g) orally per 250kg bodyweight to be added to feed twice daily for 6 to 10 days. Twice daily dosing is recommended to maintain therapeutic levels of active drugs in all situations.

Tips
Clenbuterol is a bronchodilator with minimal effect on the cardiovascular system. Clenbuterol also has a stabilising effect on mast cells, preventing the release of histamine, serotonin and bradykinin, therefore has a beneficial effect to clear mucociliary discharge. The spectrum of bacteria sensitive to this antibiotic combination includes; Staphylococci, Streptococci, Fusobacterium, E. coli, Corynebacterium (excluding Rhodococcus equi), Salmonella, Shigella, Klebsiella, Pasteurella, Haemophilus, Proteus spp and most Escherichia coli, some Brucella and Nocardia spp. Most Pseudomonas spp are insensitive. Bacterial culture and sensitivity testing should be carried out in cases of non-responsive or chronic infection.

Handling Precautions
May be harmful if swallowed. May cause skin irritation. Repeated exposure may cause skin allergy. May cause eye irritation. Avoid inhalation. May cause respiratory sensitisation. Trimethoprim possibly may affect bone.

ACTIVE CONSTITUENTS
Clenbuterol Hydrochloride 21.44 ug/g
Sulfadiazine 335 mg/g
Trimethoprim 67mg/g

PACK SIZE
500g tub

Pharmacology
Airway Tmps Oral Powder is formulated for the treatment of respiratory disease in horses caused by organisms susceptible to trimethoprim and sulfadiazine combination therapy. It is for treatment of respiratory conditions characterised by restriction or obstruction of airways, including bronchospasm and obstruction resulting from bacterial and viral infection, bronchitis and bronchopneumonia. Airway Tmps Oral Powder is indicated whenever bronchodilation and antibacterial protection is desirable. Clenbuterol is a sympathomimetic amine that blocks beta2-receptor sites in the body, including those in lungs and uterus. This allows for maximum bronchodilation with improved pulmonary ventilation and mucus clearance without significant effects on the heart and blood vessels.

Indications
For the treatment of respiratory disease in horses caused by organisms susceptible to a trimethoprim/sulfadiazine combination. Treatment of respiratory conditions characterised by restriction of the airways, including bronchospasm and obstruction resulting from bacterial and viral infection, bronchitis and bronchopneumonia. Indicated where bronchodilation and antibacterial protection is desirable.

Contraindications
Airway Tmps Oral Powder will potentiate the action of corticosteroids, and antagonise the effects of prostaglandin F2alpha and oxytocin. Beta adrenergic agents adversely affect the action of Airway Tmps. Concurrent treatment of horses with these medications is not recommended. Airway Tmps Oral Powder should not be used in horses during the last 14 days of gestation, as uterine contractions may be prevented.

Meat Withholding Period: Nil.
Racing/Event Withholding Period: If used in performance animals, the regulations of the relevant authorities regarding medication should be observed.
First Aid: If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126 or in New Zealand 0800 764 766.
Disposal: Dispose of empty container by wrapping with paper and putting in garbage. Discarded needles/sharps should immediately be placed in a designated and appropriately labelled “sharps” container.
Storage: Store below 30°C (Room temperature). Protect from light.
HIGH PERFORMANCE MILKSHAKE

Enhancing endurance and performance

High Performance Milkshake is the result of over 20 years research and development. Spanning Australia, New Zealand, Canada, and The United States, using tens of thousands of horses in developing our HIGH PERFORMANCE MILKSHAKE into a serious all-natural drug-free recovery supplement having a serious effect on enhancing endurance and performance!

Benefits:

- Reduce Lactic Acid within the muscles leading to increased endurance and performance.
- Contains Key nutrients in a balanced combination to assist with the energy production demands of the equine athlete during times of extreme energy output or VO2max.
- Provides the system with vital Krebs Cycle substrates to provide energy via ATP and the Krebs Cycle.
- Increases Muscle Glycogen reserves within the muscles for use when energy reserves are vitally low.
- Contains a comprehensive, balanced mineral profile for hydration, lactic acid and reduction and recovery.
- Enhance focus and attitude assisting in getting the best performance out of your horse.

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Products featured in this catalogue are strictly for animal use only. You must follow the recommended dosage and application method as per the detailed instructions. Always purchase and consult with your veterinarian where applicable.

Products made in the USA and Germany. All shipping from USA

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WHAT IS HIGH PERFORMANCE MILKSHAKE?
High Performance Milkshake is the ultimate combination of all natural drug free nutritional performance powders (milkshake and drenches) designed for energy production and stamina enhancement while neutralizing and reducing the build up of lactic acid. We have made this our quest for decades using trials, utilizing, thousands of horses worldwide over decades of research and development in all disciplines.

HOW DOES IT WORK?
The high performance milkshake enhance the performance in Equine Athlete. With high-intensity exercise, there is a build-up of lactic acid in muscles, leading to fatigue. The theory is that high doses of bicarbonate make blood and muscle tissue less acidic, providing buffering capacity to offset the build-up of lactic acid, enabling the horse to go farther, faster, with less fatigue.

WHY USE?
Milkshake has been extensively researched, a balanced combination of Amino Acids, Minerals, Trace Elements, Herbal Extracts, Peptides and Vitamins which make the performance better for Equine Athletes.

ADMINISTRATION AND DOSAGE
Administer entire contents via stomach tube mixed with approximately 3 liters of room temperature water (do not use cold water out of fridge) 4-6 hours before competition. For best result in camels use 5 days prior to racing.

SIZE
Milkshake is approximately 500g.

INGREDIENTS
Carnosine, Glutamine, Inosine, Leucine, Isoleucine Valine, Carnitine, Beta Alanine, Norvaline, Arginine Alpha Keto Glutarate, Citrulline, Dimethyglycine, Choline Bitartrate, D-Ribose, Fieldose17, Calcium Pyruvate, Potassium Aspartate, Magnesium Aspartate, Co-Enzyme Q-010, Sodium Phosphate (custom balanced Alkalizing agents for lactic acid reduction)

STORAGE
Keep dry in a cool environment, out of direct sunlight.
Dexamethasone

Potent Anti-Inflammatory Formula

Dexamethasone is a potent anti-inflammatory with therapeutic action used in horses and camels with acute musculoskeletal inflammations. It also provides supportive therapy in a wide variety of cases, such as heat exhaustion, influenza, laminitis, and retained placenta, provided that the primary cause is diagnosed and corrected. It is not species specific and a veterinarian should be involved in all treatments using dexamethasone. It is considered to be a better anti-inflammatory than many steroids.

Benefits:

• Anti-Inflammatory
• Treats bursitis, carpitis, osselets, tendonitis, myositis, and sprains in horses and camels
• Used in supportive therapy for heat exhaustion
• Fights fatigue
• Pain relief
• Assists with skin disorders

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WHAT IS DEXAMETHASONE?
Dexamethasone Injection is indicated for the treatment of primary bovine ketosis and as an anti-inflammatory agent in camel and horses. As supportive therapy, dexamethasone may be used in the management of various rheumatic, allergic, dermatologic, and other diseases known to be responsive to anti-inflammatory corticosteroids.

VETERINARIANS COMMENT
Veterinarians prescribe dexamethasone for use in treating bursitis, carpitis, osselets, tendonitis, myositis, and sprains in horses and camels. In addition, it is used in supportive therapy in cases of fatigue and heat exhaustion, influenza, laminitis, and retained placenta, along with diagnosis and treatment of the primary cause.

HOW DOES IT WORK?
Dexamethasone is indicated for the treatment of acute musculoskeletal inflammation in horses and camels.

ADMINISTRATION AND DOSAGE
Each ml of Dexamethasone Injection contains 4mg dexamethasone. Dexamethasone Injection is recommended for IM or IV administration. The usual dosage for Camels and Horses is 2.5ml.

Injection can be via Intravenous Injection (into the veins), Intrasynovial (within the synovial sac of a joint or a synovial tendon sheat) or intramuscular (directly into the muscle).

SIZE
Each vial contains 100ml

INGREDIENTS
Each 100ml vial contains: Dexamethasone phosphate (8.0mg), sodium citrate anhydrous (20.0mg), creatinine (16.0mg) and water for injection (q.s)

STORAGE
Store below 25°C and protect from direct light
Bio Blocker

Run True with Bio Blocker as it is the all natural Pain Blocker for horses and camels. Bio Blocker is the only safe & effective pain blocker that does not swab, and really works. Bio Blocker is for the serious & elite competitor looking for the edge. Bio Blocker is 100% safe, effective and more scientifically advanced than any other natural anti-inflammatory product on the market today, without any side effects.

Benefits:
- Relieves muscle, joint and nerve pain
- Anti-inflammatory
- Highest quality natural ingredients
- Blocks pain receptors
- Improves overall health and wellbeing
- Increases performance
- 100% drug free
- Contains no banned substances

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Bio Blocker formula is more effective and scientifically advanced than any other natural anti-inflammatory product on the market today, without any side effects.

**Information on Active Ingredients in Bio Blocker**

**TURMERIC** - Nature's own blocker
Like NSAIDs it blocks the formation of the pro-inflammatory prostaglandins (PGE2) as well as leukotrienes.
It works on 5-Lox and COX-2 inhibitor that does not affect Cox-1.
It has been used for its medicinal properties in traditional medicines for thousands of years. There are no side effects even in high dosages which is what BIO BLOCKER has as part of the patented formula.

**HYDROXYTYROSOL** - a very powerful antioxidant with anti-inflammatory outcomes; this is a POLYPHENOL.

**OLEOCANTHAL** - In 2005, researchers at Monell Chemical Senses Centre and University Sciences in the U.S.A. discovered that OLEOCANTHAL is a potent anti-inflammatory and painkiller which inhibits the activity of the COX-1 and COX-2 enzymes.

**DLPA (DL-PHENYLALANINE)** - blocks the enzymes that break down the brain's own painkilling compounds called ENDORPHINS.
The powerful analgesic properties of DLPA were shown in a study at the University Of Chicago in which more than 75% of patients with chronic pain experienced good to complete relief within a short period of time.

**Fact Sheet for Bio Blocker**
PAIN in performance horses and racing camels is a big factor. It can have a negative outcome on performance as well as the overall health and it can be the difference between winning and losing.
Non-steroidal anti-inflammatory (NSAIDS) are usually the initial therapy of choice for pain.
Examples of these include Phenylbutazone (BUTE), Flunixin Meglumine (BANAMINE), Ketoprophen, Firocoxib as well as Dexamethasone which is a steroidal but very popular.
However these products and drugs are illegal and have a withholding period in most countries.
Our patented formulation of BIO BLOCKER is safe to use, has no withholding period, is all natural and does not swab. It has similar results to the anti-inflammatory drugs mentioned above and many other benefits in relation to performance.
This permits trainers and Veterinarians to use BIO BLOCKER before and after competition; it gives them the edge in recovery as well as performance on the track where it matters most.

**Why Use Bio Blocker?**
BIO BLOCKER is formulated with the highest quality ingredients; it is all natural so there are no prohibited substances in BIO BLOCKER.

It is completely safe to use in all performance horses and racing Camels. It can be used as a pre-race as well as a training aid. BIO BLOCKER is a multi-action formula designed as an aid in relief of muscle, joint and nerve pain. It also is effective in blocking pain receptors allowing your horse or Camel to perform to its optimum peak.

**Is it Legal in Performance Animals?**
BIO BLOCKER is 100% drug free; it contains no banned substances and does not swab. All users must adhere to the rules of racing in their country or state.

**Size and Availability:**
BIO BLOCKER is available for purchase in 100ml bottle

**Performance Dosage:**
Give 20ml of BIO BLOCKER IV or orally 4-6 hours before competition. If using Bio Blocker IV It must be administered by a licensed Veterinarian.

**Training Aid:**
Give 20ml IV or orally of BIO BLOCKER before or after training as an aid in reducing inflammation and soreness.

**Storage:**
BIO BLOCKER should be refrigerated or stored in a dark cool room. Keep out of children's reach.
ITPP

Performance Maximizer

Myo-inositol trispyrophosphate (ITPP) is for the elite competitor. It is used to increase the amount of oxygen in hypoxic tissues. Studies have shown that administration of ITPP increases the maximal exercise capacity. ITPP is synthetic allosteric effector of hemoglobin that increases the regulated oxygen releasing capacity of red blood cells for increased energy and performance in race horses and camels.

Benefits:
- Increases maximum energy capacity
- Improves performance
- Regulates oxygen release in red blood cells
- Maximum effect if used in conjunction with DMG
- Reduces lactic acid
- Improves stamina

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ITPP (Myo-inositol trispyrophosphate) is a synthetic allosteric effector of hemoglobin which increases the regulated oxygen releasing capacity of red blood cells leading to increased energy and performance in race horses and camels. Studies have shown that administration of ITPP increases the maximal exercise capacity. It works best when used in conjunction with DMG.

WHY ITPP?
ITPP is a new drug capable of increasing the amount of oxygen in hypoxic tissues. Studies have shown that administration of ITPP increases the maximal exercise capacity in normal mice as well as mice with severe heart failure. The properties of ITPP make it an ideal candidate as a doping agent to enhance performance in racehorses. While there have been speculations in the horseracing industry that the covert use of ITPP is already widespread, no reported method exists for the detection of ITPP in equine biological samples.

HOW DOES IT WORK?
ITPP modifies the hemoglobin in the red blood cell to release more oxygen as the red blood cell enters tissues which require oxygen.

WHY USE?
Increases the normal energy levels of the horse or camel to significantly improve performance in high intensity activities.

SIZE
Available in boxes of 6 x 10 ml vials.

INGREDIENTS
Myo-inositol trispyrophosphate (ITPP) 200mg/ml (10ml Vial)

ADMINISTRATION AND DOSAGE
SHAKE ITPP INJECTION WELL BEFORE USING. For maximum results, administer 10ml ITPP Injection by SLOW intravenous or intramuscular injection) 96 hours prior to event, then repeat at 24 hours prior to event. When mix with sterile water make sure vial is harm up to 37°C for the total solution to be dissolve. Alternatively, put in sunlight for a few minutes to dissolve so that there will be no residual.

STORAGE
MUST BE refrigerated. Store between 3-8°C
Yohimbine A

Xylazine sedation and analgesia are attributed to stimulation of central presynaptic α2A-adrenoreceptors, preventing the release of noradrenaline from adrenergic neuron terminals. Bradycardia and hypotension observed under xylazine have been attributed to central postsynaptic α2A-adrenoreceptor. Xylazine is one of the most specific α2A-adrenoreceptor antagonist itself well to antagonism. Yohimbine hydrochloride is a specific α2A-adrenoreceptor antagonist with central action. It is an effective antagonist to xylazine in horses and camels. In horse, yohimbine hydrochloride is an effective antagonist to xylazine sedation in red, fallow. 4-Aminopyridine is an antagonist to nondepolarising neuromuscular blocking drugs and is known to greatly enhance transmission at the neuromuscular junction and partially effects the number of anaesthetics and sedatives. The effects of the antagonist are mainly attributed to direct antagonism of xylazine by 4-aminopyridine and yohimbine, there effects are only considered partial.

Benefits:

• Anaesthesia Reversal
• Reversal of sedation
• Boosts Circulation
• Reduce Pain
• Improves Athlete Performance
• Decreases Blood Clotting
• May Help Treat Arthritis
• Promotes Fat Burning and Weight Loss

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WHAT IS YOHIMBINE A?
Yohimbine, an alpha-2 adrenergic receptor antagonist, is an indole alkaloid found in numerous botanical sources. It is the predominant alkaloid in extracts from the bark of the Pausinystalia yohimbe tree, and can also be found in Rauwolfia root. Yohimbine has two stereoisomers (rauwolscine and corynanthine) that differ little in their physical properties or in their effects on serotonin and dopamine receptors. The three isomers, however, do differ significantly in their affinity for the alpha-1 and alpha-2 adrenergic receptor subtypes. Yohimbine was one of the first radioligands developed for selectively labeling alpha-2 adrenergic receptors.

HOW DOES IT WORK?
Yohimbine works by blocking receptors in the body called alpha-2 adrenergic receptors. These receptors play an important role in inhibiting erections. Therefore, yohimbine is thought to help alleviate erectile dysfunction by blocking the receptors responsible for preventing erections. Yohimbine may also promote the release of nitric oxide. This could lead to the dilation of blood vessels and an increase in blood flow to sexual organs.

WHY USE?
Yohimbine is one of the most specific α2A-adrenoreceptor antagonist itself well to antagonism. It is an effective antagonist to xylazine in horses and camels. In horse, yohimbine hydrochloride is an effective antagonist to xylazine sedation in red, fallow. In camel, yohimbine has been found to effectively reverse xylazine sedation. Yohimbine overdose does not cause central excitation but instead produces sedation.

ADMINISTRATION AND DOSAGE
Give by intravenous injection only.
1mL/40kg (0.25 mg/kg) bodyweight; mature animals: 1mL/50kg (0.2mg/kg) bodyweight.

SIZE
Available in 10ml bottles.

INGREDIENTS
Yohimbine A (Hydrochloride) 10mg/ml, contains Parabens

STORAGE
Keep in cool environment. Store below 30°C (room temperature). Veterinary Use Only.
Mechano Growth Factor

MGF 1000 is a variant of the growth factor IGF1. MGF 1000 is expressed in muscle tissues in response to overload or damage of muscle growth tissue. MGF 1000 stimulates satellite cells into activation which in turn promotes new muscle fibre and tissue. MGF 1000 has the ability to cause wasted tissue to grow and improve by activating muscle stem cells and increasing the upregulation of protein synthesis, this unique ability can rapidly improve recovery and speed up muscle growth. MGF can initiate muscle satellite (stem) cell activation in addition to its IGF-1 receptor domain which, in turn, increases protein synthesis turnover; therefore, if used correctly it can improve muscle mass over time.

Benefits:

- Increases strength and power
- Potent muscle builder
- Activating muscle stem cells for maximum results
- Accelerated recovery from injury
- Improves skeletal muscle regeneration
- Improves bone density

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MGF 1000
Purity: exceeding 99%, assayed via HLPC

Molecular Formula: C121H200N42O39 Molar Mass: 2867 Da (g/mol)

Synonyms: IGF-1 Ec

Amino Acid Sequence: Tyr-Gln-Pro-Pro-Ser-Thr-Asn-Lys-Asn-Thr-Lys-Ser-Gln-Arg-Arg-Lys-Gly-Ser-Thr-Phe-Glu-Glu-Arg-Lys-NH2

**WHAT IS MGF 1000?**
MGF 1000 has the ability to cause wasted tissue to grow and improve by activating muscle stem cells and increasing the up-regulation of protein synthesis. This unique ability can rapidly improve recovery and speed up muscle growth.

When your horse is training, racing or eventing, he is breaking muscles down and the real growth happens when the muscle heals and cells are able to grow and increase in size. This is where MGF 1000 can be utilized as an incredible recovery tool. MGF 1000 can be used as a standalone peptide post workout, but it’s especially useful on recovery days.

When your horse works hard, he has already been using his own MGF that his body creates. IGF-1 is spliced due to its response to broken down muscle tissue and one of the splices produced is IGF-1Ec, better known as mechano growth factor. Basically, MGF is a version of IGF, specifically IGF-1Ec. MGF is an amazing variant that directly helps with the up-regulation of protein synthesis and nitrogen retention. This is why MGF 1000 is the best variant of the IGF-1 series. After you have broken down muscle tissue (post training), you can use the peptide MGF 1000 and reap the long term benefits of its response to damaged muscle tissue, in comparison to simple MGF. In addition, it will help him signal growth in nearby undamaged muscular cells. This gives it the unique ability to grow lagging body parts in areas where muscle growth is desired.

**ADMINISTRATION AND DOSAGE**
Use one vial mixed with 2.5ml sterile water, sub-contaneous (under the skin). For best results use 1 x 10mg vial every 3 days for 6 treatments.

**INGREDIENTS**
10mg Mechano Growth Factor (99%).

**STORAGE**
Keep Refrigerated when possible and out of direct sunlight.

**Clinical Research**
While scientific study has been conducted on animal test subjects to gauge MGF's functionality, potential negative side effects, and theoretical benefits, it should be noted that any findings associated with the peptide are still based in current laboratory research. Because the peptide is currently in the research phase, any usage or study pertaining to the operational mechanics, functionality, theoretical benefits, and negative side effects of the peptide should solely be contained to the restrictions of a strictly controlled environment such as a laboratory or a medical research facility.
CAMGEST E

Progesterone and Vitamin E "Matrix"

Specifically developed for reproductive work in racing camels and horses. It gives excellent results in the synchronisation of cycles for matching Recipient and Donor female camels and horses in Embryo Transfer programmes. Camgest E can also be used to help with habitual embryonic loss early in pregnancy and cam suppress difficult behaviour in male camels and horses if needed.

Progesterone is a naturally occurring steroid hormone produced in the body that is important in the maintenance of pregnancy, embryogenesis and regulation of the estrus/breeding cycle. It is a crucial metabolic intermediate in the formation of other steroid hormones including those involved with sex hormones and corticosteroids from the adrenal gland. Interestingly it also plays an important role in brain function as a neurosteroid and thus can affect behaviour related to both performance and breeding. Vitamin E is an essential fat-soluble vitamin acting as an antioxidant and free radical scavenger. It is very important in reproductive function as well as muscle and nerve health. It may also play an important role in gene expression. Vitamin E deficiency is very common in camels and is a leading contributor to reproductive inefficiency and also calf mortality.

Benefits:

- Help with reduction of early embryonic loss in early pregnancy in camels and horses
- Generally enhance reproductive results in racing horses and camels
- Reduce the incidence of Cystic Hemorrhagic Follicle in ovarian cyclic follicle waves in problem horse and camel breeders
- Higher preparation ratio of recipients in embryo transfer programs by production of more uniform follicle growth
- May also have a role in sperm migration through the females reproductive tract
- Helps correct sub clinical Vitamin E deficiency in horses and camels

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PRODUCT FACT SHEET

WHAT IS CAMGEST E?
Unique injectable combination of Progesterone in Oil, at a higher than usual concentration (50mg/ml), combined with Vitamin E (50 i.u./ml) presented in a 50 ml vial. This matrix provides a superior medication for the breeding industry.

HOW DOES IT WORK?
Progesterone is especially important in the function of the corpus luteum, which maintains the pregnancy in the female animal as well as being essential in the breeding cycle and the development of follicles on the ovary. Deficiency is extremely common in racing and breeding horses and camels. Vitamin E is vital in general health maintenance and more specifically reproductive function from the time of fertilization to pregnancy maintenance.

WHY USE?
Developed more specifically for reproductive work in racing camels and horses it gives excellent results in the synchronisation of cycles for matching recipient and donor female camels in Embryo Transfer programmes. Camgest E will provide excellent results where no other product can.

Camgest E can also be used to help with habitual embryonic loss early in pregnancy in both female camels and horses as well as suppressing problem behaviour in male camels.

SIZE
50ml per bottle

ADMINISTRATION AND DOSAGE
100 mg (2ml) given daily I.M. for 10 days is very effective in suppressing ovarian activity and decreasing the incidence of Cystic Hemorrhagic Follicles as well as giving a more uniform rebound of follicle growth post injection course.

Always use in accordance of the advice of your veterinary professional.

INGREDIENTS
Unique combination of Progesterone 50mg/ml in oil combined with 50 i.u Vitamin E in a 50ml vial.

STORAGE
Store below 30°C. Jar sealed for your protection.
Keep out of reach of children.
Veterinary use only.
MELOXI SHOT

Superior Anti-inflammatory analgesic

Meloxi shot (4-hydroxy-2-methyl-N-(5-methyl-2-thiazoyl)-2H-1,2-benzothiazine-3-carboxamide-1,1-dioxide) is a non-steroidal anti-inflammatory drug (NSAID) of the oxicam class belonging to the group of enolic acids which acts by inhibition of prostaglandin synthesis, thereby exerting anti-inflammatory, antiendotoxic, ant exudative, analgesic and antipyretic properties. It is also used for the alleviation of inflammation and pain in both acute and chronic musculoskeletal disorders in horses.

Meloxi shot is used in horses for the treatment of acute respiratory infection in combination with appropriate antibiotic therapy to reduce clinical symptoms for the treatment of diarrhoea in combination with oral rehydration therapy.

Benefits:

• Reduces pain, swelling, stiffness in joints and inflammation for a large variety of injuries and conditions.
• Long acting pain reliever
• Fast recovery from hard exercise from training or racing
• Reduces hormones that cause inflammation and pain in the body.
• Allow the horse or camel to perform at it's peak
• Scientifically proven results

Available in 100ml
Use 3ml per 100kgs for horses and camels. Can be administered intravenously or sub-cutaneously. Must be treated by licensed or registered veterinarian

Active constituent Meloxicam 20mg/ml.

Should be stored in an air conditioned environment and kept below 25° C. Once opened, Meloxi Shot must be used within 28 days.

www.aecsglobal.com

Products featured in this catalogue are strictly for animal use only.
You must follow the recommended dosage and application method as per the detailed instructions. Always purchase and consult with your veterinarian where applicable.

Products made in the USA and Germany. All shipping from USA

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WHAT IS MELOXI SHOT?
Meloxi Shot is a popular medication in the treatment of osteoarthritis, rheumatoid arthritis, and other chronic conditions that cause pain due to swelling in the joints. It is used in animals suffering from haemorrhagic gastrointestinal disorders, impaired hepatic, cardiac or renal function and haemorrhagic disorders, or where there is evidence of individual hypersensitivity to the product is contraindicated. Concurrent administration with glucocorticosteroids, other non-steroidal anti-inflammatory drugs or with anti-coagulant agents is contraindicated and should be used with caution in conjunction with other highly protein bound drugs.

HOW DOES IT WORK?
Meloxi Shot in general work by reducing the body’s inflammation response, which is part of what causes pain from injury or illness. By reducing inflammation, pain, fever, and other symptoms are reduced enough for the person to function at a normal level.

Meloxi shot blocks the enzymes that create prostaglandins, which are lipids involved in the body’s response to perceived injury, leading to inflammation and blood clotting around the wound site. Problems with prostaglandin production can lead to chronic pain issues like arthritis.

WHY USE?
Meloxi shot It is a popular medication to treat chronic conditions that causes pain, stiffness, and inflammation. It increases the negative effect of cyclosporine on kidney function, while reducing the impact of furosemide (Lasix) and thiazide diuretics. It reduces hormones that cause inflammation and pain in the body. Meloxi shot is used to treat pain or inflammation caused by osteoarthritis or rheumatoid arthritis.

SIZE
Available in 100ml

ADMINISTRATION AND DOSAGE
Use 3ml per 100kgs for horses and camels. Can be administered intravenously or subcutaneously. Must be treated by licensed or registered veterinarian

INGREDIENTS
Active constituent Meloxicam 20mg/ml.

STORAGE
Should be stored in an air conditioned environment and kept below 25°C. Once opened, Meloxi Shot must be used within 28 days.
100% Guaranteed Results

Whether your animal is in performance or competition, breeding, or simply a cherished pet, Relieve-it provides maximum pain relief with full return to mobility of strained, inflamed or injured joints. Relieve-it is a specially formulated topical all-natural, penetrating pain relief for all animals in all situations. Its ingredients consist of four specially selected varieties of eucalyptus oil, tea tree oil, olive oil and vanilla, which have been formulated using a unique and secret triple maturation process.

Benefits:
- Reduces suffering from performance stress
- Relieves joint pain
- Combats arthritis
- Reduces muscular soreness
- Cost Effective
- Safe to use - No banned substances

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PRODUCT FACT SHEET

Product Information and Key Ingredients
Relieve-it is a specially formulated topical all-natural, penetrating pain relief for all animals in all situations. It comprises four specially selected varieties of eucalyptus oil, tea tree oil, olive oil and vanilla, all formulated using a unique and secret triple maturation process, without the use of drugs or chemicals.

How does it work?
Its formula and maturation process is the well-kept secret that makes Relieve-it work so well. While the primary focus in the development phase was to produce a superior product for topical applications, future work will focus on the anti-cancer, anti-viral and other topical/dermal applications of this advanced compound for beneficial use by the consumer.

Olive Oil - is the base of Relieve-it. It has been individually selected after testing 22 varieties of olive oil. This specially blended virgin extract has been tailored to a set of specific characteristics designed to provide an oil which is mild to the skin and with unique penetrating characteristics.

Tea Tree Oil - distilled from the leaves of the Melaleuca Altemifolia, this oil is sourced from the northern coastal regions of New South Wales, a region of Australia which produces the finest and most consistent strains of Tea Tree Oil in the world. This unique traditional medicine has been chosen for use in Relieve-it for its pain relieving and anti-inflammatory properties.

Eucalyptus Oil - distilled from the leaves of the Eucalyptus Polysbactea (more commonly known as the Blue Mallee Eucalyptus), this potent oil has the highest Cineole* content of any Eucalypt in the world. This strain is only found in Australia and this complex oil has scientifically proven pain relieving properties, coupled with additional anti-inflammatory benefits. More importantly, the Blue Mallee oil contains critical trace elements which interact with the Tea Tree Oil, only after reaction in the Triple Maturation Process, providing Relieve-it with properties that no other product can reach.

* Cineole has demonstrated capability to reduce inflammation and pain.

Vanilla - a proprietary blend of vanilla extracts, specially produced for use in Relieve-it to provide circulatory benefits and to act as the delivery mechanism for the potent pain relieving and anti-inflammatory properties of the Tea Tree and Eucalyptus. The Vanilla is ‘fully bonded’ during the maturation process and helps deliver the fast acting pain relief associated with Relieve-it.

What does Relieve-it achieve?
Whether your animal is in performance or competition, breeding, or simply a cherished pet, Relieve-it provides maximum pain relief with full return to mobility of strained, inflamed or injured joints. Regardless of whether your animal is suffering from performance stress, muscular soreness, joint pain, arthritis, in recovery or just old age, it will benefit from Relieve-it. The ‘before and after’ pain relief, Relieve-it provides pain relief for up to five hours after each application. By applying before workouts and training, Relieve-it can inhibit the onset of muscular soreness and joint pain.

The Product
It is designed to promote pain relief, accelerated repair and effective healing of internal injuries and to enhance and maintain joint health and muscle soreness in horses.

Side Effects?
Relieve-it is made from all natural ingredients, oil from specially selected Australian grown species of eucalyptus and tea tree, with specially blended natural olive oil and vanilla. If used in accordance with the Directions, there are no side effects. As it is a topical pain reliever, it does not and cannot swab. It is completely Drug and Chemical free. It carries a 100% guarantee of complete satisfaction.

Is it Legal in Performance Animals?
Relieve-it is 100% clean, drug and chemical free. If used according to the Directions For Use, it will not compromise any performance animal in any event or race it competes. It does not swab.

Benefits of Relieve-it
In performance animals, the benefits include faster and better pain relief from muscular soreness, stiffness in muscles and joints and faster recovery from stressful performance. All animals will gain rapid pain relief from muscular soreness, strain and sore joints. Aging animals, especially those suffering the effects of arthritis, will gain rapid relief from pain and stiffness. Relieve-it is a Premium 5 Star Quality product which guarantees 100% pain relief - or your money back. No other pain relieving product is as effective as Relieve-It nor can it match our guarantee.

Size & Availability:
Relieve-it Oil is available in 300ml

How is it Administered?
Relieve-it is very easy to use by almost anyone. It is applied topically by hand, rubbing gently into the affected areas of the animal, with special emphasis on affected joints. With its deep penetrating qualities it will go to work quickly to relieve pain and soreness. Repeat applications can be made every 4-5 hours if required. Pain relief normally starts within 15-20 minutes. It can be applied by any competent person.

How often can it be Used?
Relieve-it can be administered as often as needed. Pain relief from a single application lasts up to 5 hours. Relieve-it is very cost effective. It costs only a few cents per application and there is no wastage.
Potent Anti-Inflammatory and Diuretic Formula

Breakthrough scientific research by Taylormade Horse Supplies Int’l Ltd has led to the release of an exciting and revolutionary new product Dexarectic developed exclusively for the Camel racing industry. What makes this product unique is not only the research and science but also being able to treat the Camel within 5 days of racing. With the long hard racing season ahead every trainer should be looking at getting the winning edge by using Dexarectic.

Benefits:

• Superior stamina and strength
• 6 day dexarectic technology
• Treat inflammatory and autoimmune conditions
• 5 Day Withdrawal Period
• Diuretic
• Pain Relief
• Fights Fatigue
• Effective and safe to use

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WHAT IS DEXARECTIC?
It has been 3 years in the research and development stage and we are finally able to release this breakthrough product to the Camel racing industry. Dexarectic is used in racing Camels as an aid anti-inflammatory and well as having a diuretic effect as well. It also supports the management in various conditions including rheumatic, allergic and dermatologic which are known to be responsive to anti-inflammatory corticosteroids.

HOW DOES IT WORK?
Dexarectic is indicated for the treatment of acute musculoskeletal inflammation in Camels as well as a diuretic.

WHY USE?
It is a dual purpose anti-inflammatory which also has a diuretic effect, these actions are essential when it comes to racing Camels. There has been other variations of this medication in this area before, but due to the advancement in technologies and new testing procedures these medications cannot be used in a timely manner and have a withholding period. Dexarectic can be used in full confidence and when used correctly within the treatment time frame you will be assured of great results. Dexarectic is an essential for racing Camels and should be used in any training and racing program.

TREATMENT AND DOSAGE
Each 10ml has a potent dosage of a formulated anti-inflammatory as well as a diuretic. Administer 10ml IV 5 days before competition DO NOT treat Camel any closer than this with Dexarectic.

SIZE
Dexarectic contains a 10ml vials.

INGREDIENTS:
Dexarectic is a patented formula it has a extracted molecule from dexamethasone as well ANP 28-17 and ANF 14-46 peptide sequence.

STORAGE:
store below 25°C keep out of direct sunlight, do not freeze. Do not use if seal is broken, keep out of children’s reach.
Ultimate Strength and Repair

Bio Pump paste has been scientifically formulated as a result of many years of research and development. Bio Pump paste is leading the way in muscle strengthening and repair, utilising an advanced combination of carefully formulated peptides and amino acids (including L-alanyl glutamine 10, L-leucine 5, L-lysine 3, L-lysine 3, L-isoleucine 3, L-valine, L-threonine 1, L-cysteine 1, L-histidine, L-methionine 0.5, L-tyrosine 0.3, L-tryptophan 0.3, arginine and BCAA). This selected combination is providing optimal supplementation globally. Bio Pump paste is 100% all-natural, drug and chemical free. It helps strengthen the muscles, works on fast recovery and promotes muscle repair after a hard workout or race.

Benefits:
- Extreme Muscle Strengthening
- Allows the horse to perform at its peak
- Optimal muscle response to every exercise session.
- Fast acting relief from muscular soreness
- Faster and better response to strengthen muscles and joints.
- Fast recovery from stressful performance

Developed and designed by world’s leading equine sports scientist Professor Allan Davie, and Dr. Jenny Stewart.

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WHAT IS BIO PUMP PASTE?
BIO PUMP PASTE is a veterinary formulation of peptides and muscle nutrients to support muscles response to training and for rapid muscle repair and recovery post race and training. Promoting uptake of key nutrients demanded by the muscle in the ‘window for recovery’ hours immediately after exercise or racing, has been shown to benefit muscle development. BIO PUMP provides the exact array of peptides and amino acids (including glutamine, arginine, lysine, threonine and BCAA) profiled to respond to the signals released during exercise these signals are released specifically to up-regulate and switch-on the genes.

WHY DOES IT WORKS?
In the short period after exercise, muscle is primed to reload, repair and build strength. If the raw materials are not immediately available in these first critical hours, enzymes can be released to break down and mobilize nutrients from other cells and divert them to the muscle. This breakdown can last as long as 48 hours – producing a stress response and potentially resulting in weight loss, muscle soreness, pain, reduced appetite and dullness. Combined with the physical stress of exercise, they can compromises replenishment of muscle fuel – delaying recovery and the capacity for further high-intensity exercise.
In the presence of the right nutrients, the muscle shifts instead into an anabolic state building strength and mass. Correct replacement strategies stimulate an anabolic effect, improve the muscles capacity to respond to the work, attenuating the stress response and increasing refueling rates – but timing and composition are critical.
Supplementing straight after work or racing provides instant anti-oxidants and amino acids – taking advantage of the increased shunting of nutrients into muscle cells that occurs after exercise.

HOW DOES IT WORKS?
During work, special signaling pathways such as energy levels, oxygen concentration and insulin-like growth factor (IGF) activate the protein (mTOR). mTOR has a key role in regulation of muscle physiology by activating the genes that stimulate protein synthesis and cell proliferation that builds strength and muscle mass. Exercise switches on this process – however to increase the efficiency and capacity for muscle building requires the availability of specific amino acids in the blood. BIO PUMP ensures these nutrients including arginine, lysine, branched-chain and essential amino acids are ready to be delivered when the muscle demands them.
The selection of nutrients and the importance of ‘timing’:

Straight after exercise, the anabolic capacity of muscle cells is 3 to 4-fold greater than at rest. This effect persists for up to 24 hours but is maximal in the first two hours post-exercise. Strategically timed replacement protocols attenuate the post exercise decline in muscle strength and mass and allow rapid recovery to be maintained for up to 8 hours. Supplementing immediately post exercise increases the rate of repair and provides for a genetically-triggered increase in muscle cell size and mitochondrial density that can be 30% higher than when supplementing is delayed by more than two hours.
WHAT DOES BIO PUMP ACHIEVE?
BIO PUMP achieves the perfect balance of timing and support – in all equine endeavours and pursuits, whether racing, training or competition schedules, correct and precise nutritional balance is critical for excellence.

No matter what discipline, training regime, race program or competition you are in – the muscles of the horse require special support. The correct nutritional support at the right time is essential to this process. The complex matrix of responses to the peptides in Bio Pump has a synergistic potential, in increasing protein building 3-fold over resting levels. Increasing amino acid levels pre- and post-exercise can assist the transition to protein synthesis within the muscle which, when combined with an increase in muscle glycogen, has a significant impact on subsequent exercise performance. The amino acid profile and the array of peptides have been selected to promote the switch in muscle from a catabolic to anabolic state after exercise.

THE PRODUCT
Is formulated specifically to activate and support the genes and muscle signaling that stimulate muscle repair and building after exercise in horses.

SIDE EFFECTS?
BIO PUMP is made from peptides and amino acids naturally present in the body. It does not and cannot swab. It is completely Drug and Chemical free and there are no possible side-effects.

IS IT LEGAL IN PERFORMANCE ANIMALS?
BIO PUMP is 100% natural, drug and chemical free. It will not and cannot compromise any performance animal in any event or race it competes. It does not swab.

SIZE & AVAILABILITY?
Available in 50 gram paste

HOW OFTEN CAN IT BE USED?
BIO PUMP can be used after each exercise session. After racing or hard work when blood flow to the muscles is at its maximum and the muscle is primed and genetically switched on to upload nutrients, BIO PUMP reaches its peak performance.

Associate Professor Allan J. Davie

Associate Professor Allan Davie has extensive practical and research experience. In recent years he has concentrated on determining the relationship between genotypes and phenotypes, at optimising training methods, examining the biological mechanisms of hypoxia training, and training processes to minimise the rate of injuries and promote welfare of equine athletes. As part of this research into training methods and genetic responses to training he has seen the need for a supplement with the potential to maximize the benefits of the responses of the muscle to a training stimuli. The Bio Pump paste formulated has been based on research done within the human field that has shown the improved benefits of providing the right diet constituents (primarily amino acids) at the right time both before and after exercise. Protein ingestion provides the building blocks (indispensable amino acids) for an increase in muscle protein synthesis and suppression of muscle protein breakdown to give a net positive protein balance. The key amino acids triggering this process have been included in the Bio Pump paste with their role in stimulating the mechanistic target of rapamycin complex-1, a key signalling protein that controls protein (muscle) growth.
Airway Gel™

Oral bronchodilating agent for horses

ACTIVE CONSTITUENT
Clenbuterol Hydrochloride 41 µg/mL

PACK SIZE
230 mL tub

Indications
As an aid in the treatment of respiratory conditions where bronchodilation or clearance of excess mucus would be beneficial.

Pharmacology
Clenbuterol is a sympathomimetic amine, with specific Beta 2 receptor agonist activity, to exert a bronchodilatory effect. Clenbuterol has expectorant activity, increasing the volume and reducing viscosity of mucoid secretions to promote airway clearance. Both these properties make clenbuterol of therapeutic and clinical value in the treatment of respiratory conditions complicated by bronchospasm or build-up of mucus in lower airways in horses.

Directions For Use
Contraindications - Do not use concomitantly with corticosteroids, prostaglandins, oxytocin and beta adrenergic blocking agents. Discontinue use in pregnant mares at least 7 days prior to expected foaling time.

Dosage And Administration
For oral administration to horses.

Acute Conditions - 2 mL/100 kg bodyweight 30 minutes prior to feeding morning and night for 7-10 days.

Chronic Conditions - 1-1.5 mL/100 kg bodyweight 30 minutes prior to feeding morning and night as required to provide long term control of symptoms.

Administration - Administer using a 10 mL oral dosage syringe. Insert the syringe nozzle into gel and withdraw required dose. Invert to expel air. Adjust to dose. Scrape off the excess gel adhering to the outside of syringe and nozzle onto inner edge of jar. Insert syringe and nozzle into corner or horse’s empty mouth. Direct towards back of tongue, and depress plunger to deposit gel. Lift horse’s chin and hold mouth closed for a few seconds to ensure that full dose is swallowed. Reseal jar after use.

Meat Withholding Period: DO NOT USE in horses that may be slaughtered for human consumption.

Racing/Event Withholding Period: If used in performance animals, the regulations of the relevant authorities regarding medication should be observed.

First Aid: If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126 or in New Zealand 0800 764 766.

Disposal: Dispose of empty container by wrapping with paper and putting in garbage.

Storage: Store below 30°C (Room temperature). Protect from light.
AICAR significantly improvements in performance in endurance-type exercise, by converting fast-twitch muscle fibres to the more energy-efficient, fat-burning, slow-twitch type. AICAR’s also has the ability to increase blood flow and glucose intake can provide a sense of stability in the event of a cardiac ischemic episode. AICAR is one of the world’s leading oxygen uptake products for elite horses and racing camels.

Benefits:
• Increasing oxygen uptake
• Increases endurance
• Improves circulation
• Cells receive more efficient energy
• Perform for longer intervals
• Increase blood flow to the heart
• Store nutrients for extra energy

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WHAT IS AICAR?
AICAR also known as 5-Aminoimidazole-4-carboxamide riboside acts as an AMP-activated protein kinase agonist. AICAR (5-amino-4-imidazolecarboxamide riboside) is endogenously produced from an intermediate in the purine biosynthetic pathway. In human athletes, urine [AICAR] correlates with gender (males > females), athletic season (in competition > out of competition), and sport (weight lifting > soccer). Plasma AICAR was hypothesized to increase with exercise. An LC-MS-MS method was developed to quantify AICAR in plasma collected from race horses before and immediately after competition. Plasma AICAR was increased in the majority of horses after racing did not correlate with age, gender, or performance in this population. When administered intravenously, AICAR acutely decreased mean arterial blood pressure despite a compensatory increase in cardiac output and heart rate. Exercise-induced increases in AICAR may facilitate vasodilation. This work was supported by the Racing Medication and Testing Consortium, the PA Racing Commissions, the Pennsylvania Harness Horsemen Association, the Meadows Standardbred Owners Association, and the Pennsylvania Horsemen Benevolent and Protective Association.

HOW DOES IT WORK?
It stimulates glucose uptake and increases the activity of protein kinases in the skeletal muscle tissue and suppresses cell death. It significantly improves the performance in endurance-type exercise by converting fast-twitch muscle fibres to the slow-twitch type.

WHY USE?
Significantly improvements in performance in endurance-type exercise, by converting fast-twitch muscle fibres to the more energy-efficient, fat-burning, slow-twitch type.

ADMINISTRATION AND DOSAGE
Inject 2ml

SIZE
Available in boxes of 6 x 10 ml vials.

INGREDIENTS
Acadenosine (AICAR) 50mg/ml (10ml Vial)

STORAGE
Refrigerated. Store between 3-8°C
ANP (Atriopeptin) is a powerful vasodilator and a protein secreted by heart muscle cells. It is released by muscle cells in the upper chambers of the heart, in response to high blood volume. ANP acts to reduce water and adipose loads on the circulatory system thereby reducing blood pressure. It is released by muscle cells in the upper chambers (atria) of the heart (atrial myocytes) in response to high blood volume. ANP has exactly the opposite function of the aldosterone secreted by the zona glomerulosa in regard to its effect on sodium in the kidney – that is, aldosterone stimulates sodium retention and ANP generates sodium loss. Activity of bradykinin causing a decrease in blood pressure.

Benefits:

- Decreases systemic vascular resistance and systemic arterial pressure
- Reduce arterial pressure
- Reduces cardiac output by decreasing ventricular preload
- Reduce blood volume
- Reduce pulmonary capillary wedge pressure
- Promotes the excretion of sodium ions in the urine

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ATRIOPEPTIN
Purity: > 95%
Synonyms: ANH; ANF; PND; NPPA; Atrial Natriuretic Factor; Atrial Natriuretic Hormone; Atropeptin; Natriuretic Peptide Precursor A

Molecular Formula: C128H205N45O39S2 Molecular Weight: 41.1 kDa

Sequence (three-letter code): {SER}{LEU}{ARG}{ARG}{SER}{CYS}{PHE}{GLY}{GLY}{ARG}{MET}{ASP}{ARG}{ILE}{GLY}{ALA}{GLN}{SER}{GLY}{LEU}{GLY}{CYS}{ASN}{SER}{PHE}{ARG}{TYR}

WHAT IS ATRIOPEPTIN?
Atrial natriuretic peptide (ANP) is a 28-amino acid peptide that is synthesized, stored, and released by atrial myocytes in response to atrial distension, angiotensin II stimulation, endothelin, and sympathetic stimulation (beta-adrenoceptor mediated). Therefore, elevated levels of ANP are found during hypovolemic states (elevated blood volume), such as occurs in heart failure. ANP is first synthesized and stored in cardiac myocytes as prepro-ANP, which is then cleaved to pro-ANP and finally to ANP.

ADMINISTRATION AND DOSAGE
Use one vial mixed with 2.5ml sterile water, sub-contaneous (under the skin). For best results use 1 x 1mg vial every 3-4 days for 6 treatments.

INGREDIENTS
1mg ATRIAL NATRIURETIC PEPTIDE (3-28) (98%).

STORAGE
Storage Keep Refrigerated when possible and out of direct sunlight.

Clinical Research
Beneficial effects seen in animal models of AKI led researchers to conduct clinical trials with different ANP preparations. Early clinical trials were underpowered and showed mixed results. Subsequently, Allgren et al. conducted a large trial of ANP in critically ill patients with acute tubular necrosis. The administration of ANP in this study did not improve the overall rate of dialysis-free survival; however, some benefits were observed in a subgroup of patients with oliguria. Since the publication of this study, there have been multiple clinical trials evaluating ANP for prevention and treatment of AKI. We conducted a comprehensive review of the existing literature on this topic. Our results show that there are too few large, high-quality studies on this topic to make any definite statement regarding the efficacy of ANP in the management of AKI. However, analysis of the existing studies shows that ANP, when used in low doses for prevention of AKI, is well tolerated and may be associated with some improvement in clinical outcomes (requirement of RRT, lengths of ICU stay, and hospitalization). Its effects are most robust when analyzed in a postsurgery setting (such as cardiovascular surgery). High-dose ANP in the treatment of established AKI was not associated with any significant clinical improvements. By causing hypotension, high-dose ANP preparations may jeopardize renal perfusion, particularly in AKI that is characterized by loss of auto regulatory capacity, and further negate the possible benefits of ANP.
Premium dual Blood Booster

Altitude-O2 is a recently formulated blood booster. Utilizing breakthrough technology combining two blood enhancers together for a single deliver of oxygen uptake. The extra oxygen significantly increases the muscles’ energy production and can therefore help to significantly improve athletic performance and output ability; higher intensity and longer duration and therefore the winning edge. As this is one of the latest products in the equine and camel industry and is one of the most potent blood builders available today, every performance animal will see the benefits.

Benefits:

- Prompt increase in red blood counts
- Increase arterial/blood oxygen content
- Improves muscle performance
- Maximal oxygen uptake and delivery to tissues
- Improves speed and power
- Increases endurance
- More rapid recovery

6 x 10ml pack
WHAT IS ALTITUDE O2?
This formulation is unique in its self, our Scientific and Research and Development team have been able to extract 3 molecules previously undiscovered from the most potent blood building peptide family. This is the latest development in the equine and camel industry and is one of the most potent blood builders available today.

HOW DOES IT WORK?
Altitude O2 Increases the amount of red blood cells as well as increases the oxygen carrying capacity of the blood to deliver more oxygen to the exercising muscles during racing or competition.

WHY USE?
The extra oxygen significantly increases the muscles’ energy production and can therefore help to significantly improve athletic performance and output ability; higher intensity and longer duration and therefore the winning edge. As this is one of the latest products in the equine and camel industry and is one of the most potent blood builders available today, every performance animal needs to be taking it.

SIZE
Altitude O2 packaging comes in a 6x10ml vials

ADMINISTRATION AND DOSAGE
Use 1 vial of Altitude O2 weekly intravenously if racing and stop 7 days before race.

WITHHOLDING 7 DAYS BEFORE RACE. IF USED WITHIN 7 DAYS HORSE MAY TEST POSITIVE AND DOPE TO RED BLOOD CELL ENHANCER. DO NOT USE CLOSER THAN 7 DAYS BEFORE COMPETITION.

STORAGE
Store below 25°C (Air conditioned)
Dual Action Formula

Omeprazole Plus is the world's premium stomach treatment for horses and camels. Omeprazole Plus is the only pure dual action formula available. Unlike other, unproven products, which attempt to "coat" the stomach lining or neutralize acidity, Omeprazole Plus inhibits all 6 proton pumps in the stomach which produce harmful stomach acid.

Benefits:

- Healing of ulcers
- Support stomach health
- Increase and restores appetite
- Improves overall wellbeing
- Raises performance levels
- Cost effective
- Dual action formula
- No side effects

In every dose,
2100 mg Omeprazole and 500 mg Sucralfate!
6 doses per each tube!

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WHAT IS OMEPRAZOLE PLUS?
Omeprazole Plus is the only proven treatment for equine and Camel stomach ulcers. Omeprazole Plus contains specially formulated Omeprazole as well as added sucralfate that acts at the source of acid production. Unlike other, unproven products, which attempt to “coat” the stomach lining or neutralize acidity, Omeprazole Plus inhibits the proton pump that produces stomach acid. With fewer active pumps, your horse or Camel’s stomach produces enough acid to break down food, but not the excess acid that causes ulcers.

HOW DOES IT WORK?
Inhibits acid production at the proton pump source.

WHY USE?
After a horse has been diagnosed with stomach ulcers by a veterinarian, treatment with OMEPRAZOLE PLUS for 60 days is recommended. After treatment with Omeprazole Plus (Omeprazole and sucralfate) can be used during times of stress to prevent ulcers from returning.

ADMINISTRATION AND DOSAGE
Before administering Omeprazole Plus, make sure the horse or camel’s mouth contains no feed. Remove the cover from the tip of the syringe, and insert the syringe into the horse’s mouth at the interdental space. Depress the plunger until stopped by the knurled ring. The dose should be deposited on the back of the tongue or deep into the cheek pouch. Replace the syringe cap after use; remaining paste may be reused on following days until emptied.
Care should be taken to ensure that the horse or camel consumes the complete dose. Treated animals should be observed briefly after administration to ensure that part of the dose is not lost or rejected. If any of the dose is lost, re-dosing is recommended.
Give 5ml orally every day for 60 days is recommended, then 3ml daily thereafter.

INGREDIENTS
2100mg Omeprazole and 500mg sucralfate per dose and 6 dosage per tube.

SIZE
6 Doses per Tube, 5 Tubes per Packet

STORAGE
Store below 25°C and protect from direct light
Fuel is a supplement to support muscle function and recovery during training and strenuous exercise. It is a blend of essential co-factors to ensure that muscle metabolism is optimised, and that energy supply to muscles is adequate, to reduce the risk of lactic acidosis, muscle fatigue and Tying Up. Provision of essential co-factors and nutrients at the correct time, and in the correct amounts, reduces the risk of muscle damage and decreased performance. Energy is a measure of a feed’s potential to fuel body functions and exercise. Various pathways and substrates are used by the horse to produce a chemical intermediate that fuels muscle contraction during exercise and depends on the intensity and duration of the exercise.

**Benefits:**

- Reduce Lactic Acid within the Muscles leading to increased endurance and performance.
- Improves available energy supply to muscles.
- Assists muscle repair and recovery after exercise.
- Reduces the risk of tying up or cramping.
- Optimises energy supply to hard working muscles.
- It is useful to prevent fatigue and stress when traveling horses long distances.
- Provides optimum performance
- Increase endurance and strength
- 200% stronger than any competitor, 20mg/ml ATP
- Pharmacy grade.

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**Products made in the USA and Germany. All shipping from USA**

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WHAT IS FUEL?
ATP (Adenosine Tri-Phosphate) is utilized in the Kreb’s Cycle – which physiologically is one of the key providers of energy to muscle and other cells, especially during strenuous endurance work. In the process of phosphorilization, a phosphate molecule is given up thereby providing energy in completion of the Kreb’s Cycle.

HOW DOES IT WORK?
ATP is the essential chemical for muscle contraction, releasing energy when it is broken down to ADP. The aspartates improve endurance by decreasing blood lactate and ammonia, thus delaying fatigue. Aerobic metabolism (high oxygen/slow twitch) is a slower producer of ATP and is associated with endurance and longer riding time.
The significance of each of these systems to energy production is important, that both systems operate simultaneously but the level of exercise determining the relative contribution of each to overall ATP production. One system doesn't just switch off and the other takes over. During sustained effort a point is reached when oxygen demand outstrips supply and anaerobic metabolism has to contribute more to overall energy production.

WHY USE?
It increases the amount of available molecules this delaying fatigue and allowing quicker replenishment of ATP from “spent” ADP. A horse’s performance is dependent on a number of factors including health, nutrition and environmental temperature. Energy is defined as the capacity to do work. The amount of energy available for muscular work is the most important factor in a horse’s performance. Athletic performance requires the efficient utilization of extreme amounts of energy transformed by metabolic pathways from chemical to kinetic energy for muscle contraction. Fuel provides the racing edge.

SIZE
Available in 100ml bottle

ADMINISTRATION AND DOSAGE
Administer 10ml in one area then another 10ml in a different, a total of 20ml maximum by intramuscular (I.M.) injection only, 4-6 hours prior to an event to delay fatigue.

You can also therapeutically treat overly fatigued horses, post-race, with 1/2 dosage as well as horses exhibiting shock symptoms due to toxemia.

INGREDIENTS
ATP (Adenosine Triphosphate) 20mg/ml

STORAGE
Store below 25°C (Air Conditioning). Protect from light.
ACETATE
Natural Hormone Enhancer

ACETATE peptide is a very potent inhibitor of many hormones such as growth hormone, glucagon and insulin. Acetate peptide mimics the effects of natural hormone somatostatin and includes many side benefits in horses and camels.

Acetate (Bremelanotide) is a highly potent synthetic peptide analogue of α-MSH that may elicit aphrodisiac effects through stimulation of melanocortin receptors. Acetate (Bremelanotide) consists of seven amino acids and is a cyclic, shortened lactam variant of alpha-Melanocyte-stimulating hormone (α-MSH), a multifunctional peptide that regulates a broad array of physiological functions. In studies, bremelanotide was shown to induce lordosis in an animal mode giving a competitive edge.

Benefits:
- Increase hormonal stimulation
- Regulates blood flow restrictions
- Helps rebuild tissues that are weakened due to degenerative disease, injury, or surgery
- Improves hormone function improving both energy management and reducing sexual stress in mares and stallions.

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ACETATE

Purity: >98% (HPLC)
Molecular Formula: C50H68N14O10 Molecular Mass: 1025.2

Sequence: Ac-Nle-Asp-His-D-Phe-Arg-Trp-Lys-OH

WHAT IS ACETATE?

Acetate or Bremelanotide is the generic term for a research peptide being studies for its possible use in helping improve sexual dysfunction. Acetate was developed from the tanning peptide Melanotan 2, which is synthetically produced variant of peptide hormone naturally produced in the body that stimulates melanogenesis that is known as alpha-Melanocyte stimulating hormone. MSH, activates certain melanocortin receptors in the process of exerting its effects. Indeed, MSH also exerts potent influence over lipid metabolism, appetite, and sexual libido. The melanocortin system targets receptors associated with desire through the melanocyte stimulating hormone paths that cross the blood-brain-barrier.

Acetate, an analogue of the endogenous α-MSH peptide, has demonstratively shown through both clinical and preliminary studies that it has the potential to stimulate powerful aphrodisiac effects. The PT-141 peptide is composed of seven amino acids and has a molar mass of 1025.2 Dalton.

According to scientific study that has been performed on horses, Acetate (Bremelanotide) works by activating the melanocortin receptors MC3-R and MC4-R in the central nervous system. This interaction allows the peptide to regulate brain transmissions that are sent to the parts of the central nervous system tied to blood flow restriction and inflammation. In essence, the peptide’s functionality could cause a curtailing of inflammation that may otherwise be triggered by various irritants or pathogens. It could also cause a reduction of the damage that may otherwise occur within blood vessels and their associative tissues – damage that could be directly linked to the wake of an incident tied to ischemia.

Because of PT (Bremelanotide)’s ability to regulate blood flow restriction and inflammation, scientific study based on horses has determined that the peptide may be instrumental in managing the onset of hemorrhagic shock and reperfusion injury. It is thought that it could aid in the former condition because it can boost sympathetic outflow to the heart and other organs that may otherwise slow down or stop altogether. It is thought that it could aid in the latter because it could possibly lessen the kinds of blockages that are typically associated to blood flow restriction to tissues in the aftermath of the ischemic cascade.

ADMINISTRATION AND DOSAGE

Use one vial mixed with 2.5ml sterile water, sub-contaneous (under the skin). For best results use 1 x 10mg vial every 3-5 days for 6 treatments.

INGREDIENTS

10mg of Acetate (99%).

STORAGE

Keep Refrigerated when possible and out of direct sunlight.

Clinical Research

Even though there has been an extensive amount of research conducted Acetate (Bremelanotide), it needs to be emphasized that all of the research that has been conducted with the peptide has been built around scientific studies that have been based on animal test subjects exclusively. As such, any findings or observations relating to PT-141 (Bremelanotide) should be exclusively contained to a strictly controlled environment such as a medical research facility or a laboratory.
Cobalt Plus

Boost Oxygen to the Max with Cobalt Plus

Our Research has shown that using Cobalt Plus we consistently achieve up to a 30% increase in red blood cells, PCV and haemoglobin. We have researched and found that horses and Camels benefit greatly on this particular as they find it difficult to raise there PCV (pack cell volume) counts. The most cost effective and proven natural oxygen enhancer on the market.

Benefits:

- Improve muscle performance
- Increase arterial/blood oxygen content
- Maximal oxygen uptake
- Prompt increase in RBCs
- Improve oxygen delivery to tissues
- Increases speed
- Increases endurance
- Faster recovery

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Cobalt is currently available without a prescription, is untested for, not banned or illegal, and increases EPO (erythropoietin) as effectively as many prescription/banned/illegal alternatives.

Cobalt also has another property which has gone relatively unnoticed: it increases EPO when taken orally. It has been used to treat certain types of anaemia, which is characterized by a lowered red blood cell count.

Hypoxia Inducible Factor and the HIF pathway are responsible for the expression of a variety of physiological responses to oxygen deprivation and conditions of lowered oxygen intake - similar to what would be seen with altitude training, which itself relies on adaptations mediated by this pathway to stimulate an increase in endogenous EPO and red blood cells.

Typically, the mediator of HIF undergoes rapid degradation under conditions of adequate oxygen intake. However, in an oxygen-deprived environment, it remains active for much longer and sets off a sequence of events that (among other benefits) activates the gene for producing EPO that promote efficient adaptation to hypoxia. Cobalt chloride appears to mimic the oxygen-deprived state at the genomic level, thereby causing the HIF mediator to remain stable enough to initiate increased EPO production.

In treating horses and camels one to two times weekly you can expect a significant rise in PCV, Haemoglobin, Hematocrits and Red blood cells over a 3-4 week.

It is an effective way to produce effects similar to EPO - a huge boost for endurance animal athletes or any animal needing increased stamina and performance.

Available in 100 ml vials.

Use 5ml intravenously weekly for horses and camels.

Store below 25°C (Air conditioned)
For the serious competitor

New technology has created a new version of DARBE-500. A synthetic form of erythropoietin which stimulates and increases red blood cell levels. DARBE-500 is for the serious competitor wanting serious results. Discuss the performance program with our team to maximise and perfect the timing of the program before competition.

The use of Darbe-500 increases oxygen absorption, reduce fatigue and improve endurance by increasing the rate of red cell production. It is also believed that Darbe-500 increases the metabolism and the healing process of muscles because the extra red cells carry more oxygen and nutrients.

As far as equine athletes are concerned, use of Darbe-500 offers a means to increase arterial/blood oxygen content, which in turn leads to an increase in maximal oxygen uptake. Horses and camels benefit most from an increase in maximal oxygen uptake as this is one of the limiting factors for performance. An additional benefit of Darbe-500 use is once administration is discontinued, red blood cells return to their original levels within a 3-4 week period.

Furthermore, the enhanced red blood cell mass may allow the equine athlete to sustain a greater training stimulus, which could produce a subsequent improvement in performance.

Benefits:

- Increase arterial/blood oxygen content
- Maximal oxygen uptake
- Enhances muscle performance
- Prompt increase in RBCs
- Improve oxygen delivery to tissues
- Increases speed
- Increases endurance
- Faster recovery

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WHAT IS DARBE-500?
Darbe-500 is Darbepoetin Afla Variant that promotes the formation of red blood cells by the bone marrow.
The kidney cells that make erythropoietin are sensitive to low oxygen levels in the blood that travels through the kidney. These cells make and release erythropoietin when the oxygen level is too low. A low oxygen level may indicate a diminished number of red blood cells (anaemia), or haemoglobin molecules that carry oxygen through the body. Darbe-500 will boost red blood cells to combat anaemia and ensure maximum performance.

HOW DOES IT WORK?
Darbe-500 stimulates the bone marrow to produce more red blood cells. The resulting rise in red cells increases the oxygen-carrying capacity of the blood. As the prime regulator of red cell production, Darbe-500’s major functions are to:
• Promote the development of red blood cells.
• Initiate the synthesis of haemoglobin, the molecule within red blood cells that transports oxygen.

WHY USE?
Use of Darbe-500 offers a means to increase arterial/blood oxygen content, which in turn leads to an increase in maximal oxygen uptake. Endurance horses stand to benefit most from an increase in maximal oxygen uptake as this is one of the limiting factors for performance.

SIZE
Available in 5ml vials.

INGREDIENTS
Darbepoetin Afla Variant 100mcg/mL

ADMINISTRATION AND DOSAGE
Give 1ml intravenously or subcutaneously every week for 5 weeks, if racing within that period treat 5 days before competition.

STORAGE
Store below 25°C (Air conditioned)

Disclaimer: Any use of Advanced Equine and Camel Solution’s products must adhere to the rules of racing in their state or country.
Breakthrough Formula for the Treatment of Joints

A new treatment developed by Taylormade Horse Supplies Int’l Ltd for Equine and Camel arthritis it is providing amazing results for Horses and Camels suffering from acute arthritic conditions. PENTOFLEX GOLD is not the first I.V arthritic treatment but many of the other products previously available have remained unchanged now for decades and as this new technology in medicine provides more effective forms of this essential joint component, it goes without saying that the only option is PENTOFLEX GOLD.

Benefits:

• A chondroprotectant that inhibits the enzymes responsible for cartilage destruction
• Promotes cartilage and synovial fluid synthesis and has anti-inflammatory properties
• Intravenous (IV) only targeting a specific area
• To improve joint function and re growth
• Assist with mobility and relieve pain associated with degenerative or traumatic joint arthritis
• Recommended for the support of healthy joints
• May be used in combination with other anti-inflammatory treatments

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WHAT IS PENTOFLEX GOLD?
PENTOFLEX GOLD is a new variation of previously used nutrients utilising the benefits of directly supplying the body and joints with a high quality effective dosage of bioavailable Sodium Pentosan Polysulfate, Hyaluronic Acid and GHRP a new regenerative peptide. This new development for treating arthritis is unique because in contrast to injecting the actual joint for the best results this variation more effectively targets the joints throughout the entire body through I.V (intravenous) injection, where before it was through intramuscular injection which was a slow process. This addresses the issue previously noted by veterinary surgeons that through thermal imaging often the joint injected is not the main contributing factor to the Horses or Camels overall soundness but often secondary to a more severe joint problem from which the horse is shifting weight and creating the more obvious problems, often in lower joints like fetlock joints and knees.

HOW DOES IT WORK?
Once injected intravenously PENTOFLEX GOLD actively goes throughout the entire animal targeting specific joints with poor quality or low levels of synovial fluid. Synovial fluid is a plasma dialysate modified by constituents secreted by the joint tissues. The major difference between synovial fluid and other body fluids derived from plasma is the high content of hyaluronic acid (mucin) in synovial fluid. Lubrication of synovial surfaces by synovial fluid requires hyaluronic acid, this is due to the boundary phenomenon. Boundary lubrication occurs when each bearing surface is coated or impregnated with a thin layer of lubricant that keeps the sliding surfaces apart allowing ease of motion with a low coefficient of friction between the sliding surfaces. Hyaluronic acid sticks to the synovial surfaces. The lubricating properties of synovial fluid in a soft tissue system is directly related to the concentration and molecular weight of the hyaluronic acid which also determines the viscosity.

WHY USE?
PENTOFLEX GOLD is clinically proven to improve the levels and quality of Synovial fluid within the joints as well as promote joint rejuvenation and provides an anti inflammatory and pain relief effect.

SIZE AND DOSAGE:
PENTOFLEX GOLD comes in a 50ml sterile vial, treat Horse or Camel with 10ml IV weekly after 4 weeks of treatment you can then reduce the dose to 5ml IV weekly.

INGREDIENTS:
Sodium Pentosan Polysulfate, Hyaluronate Glycosaminoglycan, regenerative peptide.

STORAGE:
PENTOFLEX GOLD should be stored below 25°C, protect from direct sunlight.
BLEEDER PASTE

The Ultimate Bleeder Treatment

Bleeder Paste is a scientifically formulated as a natural bleeder paste, utilizing the latest technology in the preparation of the following ingredients Glycerine, Yarrow, Tienchi Bark, Bladder Wrack, Schizandra, Trifolia Pendula, Artemesia, PEG3350, Propylene Glycol, Vitamin C, Vitamin K, Zinc and Selected Amino Acids. This selected combination is providing optimal supplementation for horses that may have suffered from a bleeding attack at some stage. Bleeder paste also is effective in slowing down and preventing a bleeding attack during a race or a high performance discipline. It supports a bleeding horse’s performance and it is a natural source of energy for equine athletes. Bleeder Paste is 100% all-natural, drug free and 100% safe to use.

Benefits:

• Reduce bleeding and repairs lung anti-inflammatory
• Provides anti-inflammatory benefits
• Breathing Support and reduce lung pressure
• Stimulates Lung Assimilate Oxygen
• All-natural and drug free product
• 100% safe for competition and racing
• Easily absorbs in the stomach with no side effects.
• Pharmacy grade ingredients
• Suitable for all disciplines

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WHAT IS BLEEDER PASTE?
BLEEDER PASTE is a scientifically formulated natural bleeding paste, utilizing the latest technology in the preparation and extraction of the active ingredients allowing the formula to be maturated for maximum results. It is 100% safe for competition and all the ingredients are clear of any banned substance. It is also easy to be absorb to the stomach with no side effects.

BLEEDER PASTE is suitable for all performance horses where lung stress is evident even strenuous exercise, bleeder paste will help the onset of a bleeding attack during competition.

HOW DOES IT WORK?
It works because the ingredients and maturation process is the reason this breakthrough oral bleeder paste really works. See some key ingredient: Glycerine, Yarrow, Tienchi Bark, Bladder Wrack, Schizandra, Trifolia Pendula, Artemesia, PEG3350, Propylene Glycol, Vitamin C, Vitamin K, Zinc and Selected Amino Acids. The technology of a maturations process combines the ingredients for fast absorption.

WHY USE?
Everybody knows all horses bleed in the lung. The combined ingredients will help your horse to promote healing of EIPH-damaged bleeding lungs, improved oxygen exchange, and supports healthy lungs in equine athletes.

SAFE FOR USE?
BLEEDER PASTE is made from natural key ingredients and selected amino anti-inflammatory peptides. It does not and cannot swab. It is completely Drug and Chemical free and there are no possible side-effects. It is also designed to stop bleeding of the lungs while also keeping elasticity and performance of the horse lung condition. When used as a daily horse supplement it will prevent lung bleeding by generating better circulation and strengthening the horse lung tissue.

IS IT LEGAL IN PERFORMANCE ANIMALS?
BLEEDER PASTE is 100% natural and drug free. It will not and cannot compromise any performance animal in any event or race it competes. It does not swab.

HOW TO USE?
For best results, use 20 grams tube 8 days before competition, another 20 grams tube 6 days before competition. Do not use any closer than 4 days before race at all times.

SIZE & AVAILABILITY?
Available in 60 gram paste
Also available in pack size 3 or 12
AECS’s patented pending Bleeder formula is unquestionably the most scientifically advanced natural bleeding product for horses and camels on the market today. Bio Bleeder the ALL Natural Alternative to Lasix. Bio Bleeder is scientifically formulated, using nature’s own healing delivery system. Bio Bleeder is effective against bleeders (EIPH), exercise induced pulmonary haemorrhage and other pulmonary side effects. Bio Bleeder is 100% safe for competition and does not swab. Recommended dosage is 20ml intravenously or orally. It must be administered by a licensed veterinarian if used intravenously and the rules of racing must apply.

Benefits:
• Stops bleeding
• Effective against induced pulmonary haemorrhage and other pulmonary side effects
• LOWERS high transmural pressure which leads to pulmonary capillary stress failure
• Healing of damaged lung walls
• Repair of stress induced damaged capillaries
• Increased diuretic activity
• 100% drug free and it contains no prohibited substances
• Increased overall performance

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PRODUCT FACT SHEET

Product Information and Key Ingredients
AEC's patented pending Bleeder formula is unquestionably the most scientifically advanced natural bleeding product for horses and camels on the market today. This is an all natural formula with no prohibited substances and no side effects; it does not swab. The research and development behind Bio Bleeder is so advanced it is being compared with and out performing leading pharmaceutical bleeding medications.

Ingredient Information
TARAXACUM OFFICINALE - A plant of the family Asteraceae. In research, high amounts aqueous extract of Taraxacum leaf have shown to have diuretic capability comparable to furosemide (lasix). Since Taraxacum Officinale is also a rich source of potassium some researchers think that it is capable of replacing potassium lost through diuresis.

MIMOSA PUDICA - This species of plant is found in South and Central America, it grows in mostly shady areas under trees and shrubs. Diuretic tests of aqueous extract of Mimosa Pudica Linn leaves were evaluated using the Lipschitz test on the controlled groups.

The control group was given 0.9% NaCl, the 3 test groups were treated with aqueous extract of leaves of M.Pudica doses of 100,200 and 400mg/kg per body respectively, and the standard group received furosemide (lasix). Urine biochemical analysis done by colorimetry showed significant diuretic activity at 100mg/kg Po with aqueous extract from the M.Pudica leaves. Increasing the dose above 100mg/kg does not bring about increase in diuretic property.

Fact Sheet Bio Bleeder
EIPH (Bleeding) has been shown to have a marked negative effect on performance, the impact on performance within a single race is significant. Horses with grade 4 bleeding attack (EIPH) were on average 6 lengths behind those finishing with a grade 0. However the repeated bouts of EPIH that occur with daily training may lead to more significant changes and a greater degree of tissue damage over time if not treated, with consequent loss of lung function and considerable damage to capillaries and blood vessels.

Why Use Bio Bleeder?
Bio Bleeder is all natural. There are no prohibited substances in BIO BLEEDER; it is completely safe to use in all performance horses and racing camels. It has a positive effect on performance and the overall health of the animal it can be used as a pre-race as well as a training aid. BIO BLEEDER is multi-functional, not only targeting and assisting in the prevention of bleeding but also helping with repair of capillaries and healing of the lungs it has also shown to assist IAD when used as a maintenance product.

What is Bio Bleeder?
Bio Bleeder is a diuretic; it also has an effect on lessening the high transmural pressure which leads to pulmonary capillary stress failure.

Bio Bleeder has healing capabilities, one of which is the repair of the lung walls that have been damaged with repeated stress after hard training and racing.

Is it Legal in Performance Animals?
Bio Bleeder is 100% drug free and it contains no prohibited substances and does not swab and is totally safe to use in competition. All users must adhere to the rules of racing in their country or state.

Performance Dosage:
Give 20ml IV or orally 8 hours before competition. It must be administered by a licensed veterinarian if used IV and the rules of racing must apply.

Training Aid:
Give 10ml IV of Bio Bleeder 3-4 hours before training or strenuous work out.

Storage:
Bio Bleeder should be refrigerated or kept in cool dark room. Keep out of children’s reach.
Regenex Gold is an aid in the treatment of non-infectious, inflammatory joint disease in horses. In particular: Osteoarthritis - especially with involvement of multiple joints, Osteochondrosis dissecans, and Traumatic joint and peri-articular inflammation. Regenex Gold actively reverses existing joint damage and protects against further degradation via 5 direct actions.

Benefits:

- Improves existing cartilage quality
- Build and repair cartilage damage
- Regrowth of cartilage
- Improves joint Fluid Quality
- Synovial fibroblasts are stimulated
- Increases viscosity of joint fluid for optimal lubrication and shock absorption
- Anti-Inflammatory relief
- Inhibits Destructive Enzymes
- Increases Blood Supply to Joints

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WHAT IS REGENEX GOLD?
Regenex Gold is a combination of Hyaluronic Acid (HA), Anti Obesity Drug Peptide (AOD) and Polymer IA. Hyaluronic acid (HA) is made up of a wide range of saccharide biopolymers. It occurs in the body naturally as a component of mammalian connective tissue and provides elastic and lubricating properties to synovial (joint) fluid and structural integrity to cartilage. It can be used to treat arthritic horses and is usually injected directly into the affected joints. It has shown to improve joint function as well as activate the tissue repair processes in articular cartilage. AOD is a component of growth hormone made up of a peptide chain which causes the breakdown of fat which dislodges stem cells which then act to repair damaged connective tissue, bone etc.

HOW DOES IT WORK?
1. Improves Cartilage Quality - Chondrocytes are stimulated to produce more proteoglycans to build and repair cartilage matrix
2. Improves joint Fluid Quality - Synovial fibroblasts are stimulated to produce increased amounts of high molecular weight hyaluronic acid resulting in more normally-viscous joint fluid for optimal lubrication and shock absorption
3. Provides Anti-Inflammatory Activity - Inflammation is reduced via a powerful inhibitory effect on all mediators of the arachidonic acid cascade and lysosomal catabolic enzymes. Leukocyte migration into joints is also reduced.
4. Inhibits Destructive Enzymes - The release of many degradative enzymes which damage cartilage and cause peri-articular inflammation are inhibited. In addition, release of an enzyme which inhibits these degradative enzymes is stimulated.
5. Increases Blood Supply to Joints - Strong fibrinolytic action promotes dissolution of thrombi and fibrin deposits, and mobilisation of lipids and cholesterol in synovial tissues and subchondral blood vessels. This improves blood exchange to maximise healing ability and promote normal intraosseous pressure.

WHY USE?
In joint disease, inflammation leads to the accumulation of inflammatory cells and degradative enzymes in the joint fluid which break down HA. The loss of HA results in lowered viscosity of the joint fluid and further influx of inflammatory cells, leading to further cartilage damage and worsening joint disease. Supplementation of sodium hyaluronate helps to replace HA lost as a result of joint disease and thereby restores lubrication of the joint, reduces inflammatory infiltrates and minimises ongoing damage by using Regenex Gold.

ADMINISTRATION AND DOSAGE
Regenex Gold give intra articular (in joints) up to 2ml per joint or as necessary

SIZE
Available in 10mL vials

INGREDIENTS
Hyaluronic Acid (HA), Anti Obesity Drug Peptide (AOD) and Polymer IA

STORAGE
Store below 25°C and protect from direct light
Duel Anti- Inflammatory Analgesic Pain Reliever

Inflamole which consist of Anti-Inflammatory 2 peptide, Curcumin and Krill Oil. Curcumin (from Turmeric) is a potent, broad acting anti-inflammatory that works by mediating the down-regulation of the pro-inflammatory cytokines and enzymes, as well as inhibiting colonic mucosa cyclooxygenase (COX) and lipooxygenase (LOX) activities, and by reducing in the release of reactive oxygen species (ROS) by stimulated neutrophils. It moderates inflammation by stopping the formation of prostaglandins, which are pivotal mediators of inflammation. By doing this, they also reduce the formation of certain pain-causing products of inflammation. But anti-inflammatory products do much more than simply control pain. They also reduce swelling and fever. They have value in treating a wide range of conditions in horses, from abdominal pain (colic) to joint injury and laminitis.

Benefits:

- Allows the horse and racing camel to perform at its peak
- Fast and effective natural pain reliever
- Improving the blood flow to joint tissues by preventing clots in small blood vessel. Reduces inflammation and rebuilds cartilage to improve joint mobility and relieve pain.
- Strong natural anti-inflammatory
- It is a natural anti-microbial agent
- Suitable for long term use with low dosage

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WHAT IS INFLAMOLE?
Inflamole is the world's most powerful natural Anti-Inflammatory 2 peptide (AIF) response to reduce pain and increase joint mobility. The active ingredient in turmeric is called curcumin and it is this specific phytochemical that is known for its effectiveness in treating a variety of conditions. This product may be used to help treat physical trauma, reduce pain and swelling, and symptoms of arthritis in horses. It can also be used as an extraction solvent.

HOW DOES IT WORK?
Turmeric (curcumin) is probably best known for its use as an anti-inflammatory. It works by significantly reducing the inflammatory pathways in the body, but unlike bute and most other non-steroidal anti-inflammatories often given to horses, turmeric works as a COX-2 inhibitor (as opposed to COX-1) and does not damage the lining of the stomach. Krill oil reduces the susceptibility of the horse's skin to inflammation by flies and other insects. It helps your horse's coat stay shiny all year round. Krill oil was originally researched as a way of helping race horses run faster. Horses that receive krill oil run faster because their lungs absorb oxygen more efficiently through more completely open air passage.

WHY USE?
Turmeric (curcumin) with its anti-inflammatory and antioxidant action is able to inhibit the production of proinflammatory cytokines at the level of chondrocytes as well as to promote chondrogenesis. All natural drug free, cost effective, and easy to administer.

ADMINISTRATION AND DOSAGE
For best results, use 3 to 4 capsules twice per week.

SIZE
60 capsules in a bottle.

INGREDIENTS
Euphasia superba (Antarctic Krill), Curcuma longa Rhizome, Anti- Inflammatory 2 peptide (AIF). Other ingredients - Beeswax, Gelatin, Glycerol, Iron Oxide red, Iron oxide black, Lecithin, Purified Water, Sorbitol, Soya oil, Titanium dioxide, Vegetable Oil Hydrogenated.

STORAGE
Store below 30°C. Jar sealed for your protection.
HEMORPHIN 7

Reduces Blood Pressure

Hemorphin-7 is a hemorphin peptide, an endogenous opioid peptide derived from the chain of hemoglobin. Hemorphin peptides exhibit antinociceptive and antihypertensive activities, activating opioid receptors and inhibiting angiotensin-converting enzyme (ACE).

It binds to the Angiotensin receptor triggering multiple effects including cellular proliferation, preferentially interacts with delta and kappa receptors. It potentiates the activity of bradykinin causing a decrease in blood pressure.

Benefits:

- Increase the blood plasma levels of immunoreactive hemorphin-7
- Anti-inflammatory response in acute and chronic injuries
- Reduces Blood Pressure
- Supports oxygen transport from lung to various peripheral tissues
- Reduce stiffness and aids in flexibility

www.aecsglobal.com

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Products made in the USA and Germany. All shipping from USA

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Hemorphin-7 (HE7)

Purity: > 95%

Molecular Formula: C_{49}H_{64}N_{12}O_{11} Molecular Weight: 997.110

Sequence (three-letter code): {TYR}{PRO}{TRP}{THR}{GLN}{ARG}{PHE}

Hemorphins are opioid peptides derived by proteolysis from hemoglobin. Their sequences are identical in several mammalian species including horses and camels. LVV-hemorphin 7 (LVVYPWTQRF) binds strongly to the Angiotensin IV (AT4) receptors in the brain. The AT4 receptors is an integral membrane aminopeptidase also as IRAP (insulin-regulated membrane aminopeptidase). LVV-hemorphin 7 and AT4 are not substrates but rather inhibitors of the AT4 (IRAP) receptor. Both promote learning and memory and reverse amnesia in animal models. Elevated serum levels of LVV Hemorphin 7 have also been documented in animals associated with an increased expression of Cathespins B and D.

ADMINISTRATION AND DOSAGE

Use 1 vial mixed with 2.5ml sterile water, sub-contaneous (under the skin). For best results use 1x 5mg vial every 5 days for 6 treatments.

INGREDIENTS

6x5mg HEMORPHIN-7 (99%).

STORAGE

Keep Refrigerated when possible and out of direct sunlight.

Clinical Research

In the current study, a series of alanine-substituted and N- or C-terminally modified analogs of LVV-hemorphin-7 were evaluated for their abilities to compete for 125I-Ang IV binding in horse adrenal and cerebellar membranes.

Selected analogs were also analyzed for binding to recombinant human IRAP and inhibition of IRAP aminopeptidase activity. C-Terminal deletions of LVV-hemorphin-7 resulted in modest changes in affinity for IRAP, whereas deletion of the first three N-terminal residues abolished binding. Monosubstitutions of Tyr4 and Trp6 with alanine resulted in a 10-fold reduction in affinity. Competition binding studies using recombinant horse IRAP demonstrated the same rank order of affinity as obtained for the ovine tissues. All LVV-hemorphin-7 analogs tested, except for Leu-Val-Val-Tyr, inhibit the cleavage of the synthetic substrate, leucine -naphthylamide, by IRAP, with Ki values between 56 and 620 nM. We find that the Val3 residue is crucial for LVV-hemorphin-7 binding to IRAP, whereas the C-terminal domain seems to play a minor role. The current study highlights the minimal residues necessary for binding and inhibition of IRAP and provides a basis to design peptidomimetic analogs for experimental and potentially clinical use.
**Enro™ 100**

**INJECTABLE SOLUTION**

ACVM Act 1997 No.A11232

Anti-infective agent for the therapy of specific diseases caused by susceptible bacteria

**ACTIVE CONSTITUENT**

**ENROFLOXACIN**

Enrofloxacin 100mg/mL

**PACK SIZE**

100mL single vial

For subcutaneous injection in cattle and intramuscular injection in pigs.

**Indications**

Bacterial infections of bones in pigs and cattle. Mastitis in cows where the causative organisms have been established to be either E. coli or Pseudomonas. Appropriate intramammary treatment with another antibiotic should be used in combination with systemic treatment (other than oral) with Enrofloxacin 100. Infection of the male reproductive tract (prostatitis, vesiculitis, orchitis) in the bull. Other infections of cattle and pigs where poor tissue penetration by other antimicrobial drugs can be expected and where the condition is caused by a susceptible organism which is not expected to respond readily to other antibiotics. Indiscriminant use of antibiotics may lead to the development of resistance. Randlab Enrofloxacin 100 should be used in individual animals in line with the above recommendations. Treatment of groups of food producing animals is only recommended when culture and sensitivity testing indicate Randlab Enrofloxacin 100 is the only product likely to be effective.

**CHEMISTRY:** Randlab Enrofloxacin 100 Injectable Solution contains enrofloxacin, an anti-bacterial of the 4-quinolone group.

**MODE OF ACTION:** Randlab Enrofloxacin 100 Injectable Solution inhibits the enzyme DNA gyrase which plays a major role in the replication of DNA. Inhibition of this enzyme leads to functional disturbances with blockage of certain stages in synthesis, resulting in death of the bacterium. This mode of action rules out cross resistance between Randlab Enrofloxacin 100 Injectable Solution and other anti-bacterials commonly used in veterinary medicine.

Spectrum of activity: Randlab Enrofloxacin 100 Injectable Solution is active against a wide range of gram negative and gram positive bacteria and Mycoplasma species.

Randlab Enrofloxacin 100 Injectable Solution is reserved for use for the following indications only:

1. Bacterial infections of bones in pigs and cattle
2. Mastitis in cows where the causative organisms have been established to be either E. coli or Pseudomonas. Appropriate intramammary treatment with another antibiotic should be used in combination with systemic treatment (other than oral) with Randlab Enrofloxacin 100 Injectable Solution.
3. Infection of the male reproductive tract (prostatitis, vesiculitis, orchitis) in the bull.
4. Certain infections of cattle and pigs, in locations where poor tissue penetration by other antimicrobial drugs can be expected and where the condition is caused by a susceptible organism which is not expected to respond readily to other antibiotics.

**Directions For Use**

**DOSAGE AND ADMINISTRATION**

Cattle & Pigs: Basic Dose Rate: 2.5 mL per 100 kg bodyweight per day for 3 days.

Severe respiratory Infections: 5.0 mL per 100 kg bodyweight per day for 3 days.

**MEAT Withholding Period:** MEAT: Animals producing meat or offal for human consumption must not be sold for slaughter either during treatment or within 7 days of the last treatment.

MILK: Milk intended for sale for human consumption must be discarded during treatment and for 168 hours (7 days) following the last treatment.

It is an offence for users of this product to cause residues exceeding the relevant MRL in the New Zealand (Maximum Residue Limits of Agricultural Compounds) Food Standards.

**Racing/Event Withholding Period:** If used in performance animals, the regulations of the relevant authorities regarding medication should be observed.

**First Aid:** If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126 or in New Zealand 0800 784 766.

**Disposal:** Dispose of empty container by wrapping with paper and putting in garbage. Discarded needles/sharps should immediately be placed in a designated and appropriately labelled "sharps" container.

**Storage:** below 25°C (Air conditioning). Protect from light. Following withdrawal of the first dose, use the remainder of the vial within 28 days or discard the unused portion. Dispose of empty container by wrapping with paper and putting in garbage.
An aid in the treatment of non-infectious inflammatory joint disease in horses

**Dosage And Administration**

**Equine** - Musculoskeletal disorders: 1.1 mg per kg (1mL/45kg) bodyweight once daily by I.V. (intravenous) or I.M. (intramuscular) injection for up to 5 days. Relieve of pain associated with colic - 1.1 mg per kg bodyweight I.V. administration is recommended for prompt relief. May be repeated with signs of colic occur. Cause of colic should be determined and treated with concomitant therapy.

**Bovine** - Infectious respiratory conditions, “downer cow” Syndrome - 2.2 mg/kg I.V. (2 mL/45kg bodyweight). Once daily dosage for 1-3 days. Concomitant anti-infective therapy required in the presence of bacterial infections. Oxytetracycline and tylosin are compatible with flunixin. SEPARATE injections must be given.

**Swine** - MMA syndrome: 2.2 mg/kg (2 mL/45kg) by deep I.M. injection (5 cm). One or two injections twelve hours apart.

**Canine** - 1.1 mg per kg bodyweight I.V. (0.2 mL/9 kg bodyweight) once daily for 2-3 days. Dose rate should not be exceeded.

**Trade Advice**

Export slaughter interval - this product does not have an ESI established. For advice on the ESI, contact Randlab on (02) 9534 8207 before using the product.

**Contraindications**

This product is contraindicated for use in cats. The safe use of Colix in pregnant, lactating or breeding dogs has not been established. In the absence of any specific studies in pregnant target animals such use is contraindicated.

**Indications**

**Equine** - For the alleviation of inflammation and pain associated with musculoskeletal disorders and for the alleviation of visceral pain and inflammation associated with colic. Also aids the normalisation of peristalsis.

**Bovine** - As an aid in the management of acute respiratory disease in cattle. As an aid in the management of “downer cow” syndrome.

**Swine** - As an aid in the treatment of mastitis, metritis, agalactia syndrome (MMA or lactational failure) in sows.

**Canine** - As supportive therapy for arthritis, heat stroke and accident cases.
**Anti-Inflammatory Peptide**

ANTIFLAMMIN works by altering the activation and migration of inflammatory cells, which are immune cells responsible for amplifying the inflammatory response in horses and camels. It is used for pain relief from infections and musculoskeletal disorders, including sprains, overuse injuries, tendinitis, arthralgias, arthritis, and laminitis. It also acts directly on musculoskeletal tissue to control inflammation, thereby reducing secondary inflammatory damage, alleviating pain, and restoring range of motion.

**Benefits:**
- Reduces inflammation
- Rapidly promoting relief
- Soothes and relieves stiff joints
- Provides micronutrients in their natural form to help support overall health and improve skin/hoof condition.
- Ideal for horse's experiencing discomfort from daily exercise or racing

**Purity:** ≥97% (HPLC)

**Uses:**
- Reduces pain, and restoring range of motion.
- Alleviates laminitis. It also acts directly on musculoskeletal tissue to control
- Ideal for horse's experiencing discomfort from daily exercise or racing

**Dosage:**
- 10mg of Antiflammin (99%).
- 6x10mg vial every 5-7 days for 6 treatments.
- Use one vial mixed with 2.5ml sterile water, sub-contaneus (under the skin). For best results use 1

**Clinical Research**

Inflammation is the body's natural response to things that cause it harm. However, sometimes the inflammatory response can be excessive, causing discomfort or pain and delaying recovery. Inflammation is associated with a wide range of equine diseases, including recurrent airway obstruction, laminitis and sweet itch. Although inflammation on its own is rarely life-threatening, if a horse has an inflammatory condition that cannot be managed, it may have to be euthanased. In addition to reducing the inflammation associated with these conditions, our Antiflammin product provides micronutrients in their natural form to help support overall health and improve skin/hoof condition.

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Inflammation is associated with a wide range of equine diseases, including recurrent airway obstruction, laminitis, uveitis and even COPD that have been recurring for months or years.

ANTIFLAMMIN
Purity: ≥97% (HPLC)

WHAT IS ANTIFLAMMIN?
Antiflammin is a synthetic peptide derived from the region of highest sequence similarity of lipocortin I and uteroglobin, and is a potent antiinflammatory agent without any known side effects of corticosteroids.

Antiflammin are research supported and clinically utilized in veterinary patients with excellent results. It is designed for more chronic inflammatory disorders in the horse such as arthritis, navicular syndrome, laminitis, uveitis and even COPD that have been recurring for months or years. In addition to reducing the inflammation associated with these conditions, our Antiflammin product provides micronutrients in their natural form to help support overall health and improve skin/hoof condition. Many horses with chronic ailments have been able to reduce or eliminate their dependence on prescription pain medications after 1-2 months of using the Antiflammin.

ADMINISTRATION AND DOSAGE
Use one vial mixed with 2.5ml sterile water, sub-contaneus (under the skin). For best results use 1 x 10mg vial every 5-7 days for 6 treatments.

INGREDIENTS
10mg of Antiflammin (99%).

STORAGE
Keep Refrigerated when possible and out of direct sunlight.

Clinical Research
A research project has made important discoveries about how two peptides regulate the inflammatory response in horses. This knowledge could help with the development of improved anti-inflammatory drugs, which are used to treat a wide range of conditions in horses.

Inflammation is the body's natural response to things that cause it harm. However, sometimes the inflammatory response can be excessive, causing discomfort or pain and delaying recovery. Inflammation is associated with a wide range of equine diseases, including recurrent airway obstruction, laminitis and sweet itch. Although inflammation on its own is rarely life-threatening, if a horse has an inflammatory condition that cannot be managed, it may have to be euthanased.
**Bromo Tmps™**

**ORAL POWDER**

APVMA Approval No. 62490/500G/0308 (Australia) | ACVM No. 10112 (New Zealand)

**Treatment of respiratory infections in horses**

**Indications**

For the treatment of respiratory infections in horses due to organisms susceptible to the combination of sulfadimidine and trimethoprim.

**Dosage Frequency**

MICs of the sulfadimidine-trimethoprim combination vary widely for the range of respiratory pathogens which are of significance in equine respiratory disease. In order to ensure efficacy against the major equine respiratory pathogens, the dose rate of Bromo Tmps Oral Powder has been calculated to produce drug levels which would be therapeutic against those pathogens for which the MIC is greatest.

Once daily dosing of Bromo Tmps Oral Powder at recommended dose rates will produce average steady state levels of sulfadimidine/trimethoprim which are effective against many of the major bacterial respiratory pathogens of clinical significance in horses in Australia.

Twice daily dosing of Bromo Tmps Oral Powder is recommended in preference to once daily dosing as the maximum (trough) concentrations of sulfadimidine and trimethoprim are potentially subtherapeutic in some individuals for some sensitive pathogens under a once daily dose regimen.

**Directions For Use**

For oral administration only. Administer on damp food with honey or molasses. Add one level scoop (12g) per 200kg bodyweight twice daily in feed. Twice daily dosing is recommended to maintain therapeutic levels of active drugs in all situations.

**Bioavailability**

Pharmacokinetic trials in horses have established that both sulfadimidine and trimethoprim are readily and rapidly absorbed after oral administration and reach therapeutic plasma levels within approximately 30 minutes of administration. Trial results demonstrate that the formulation is efficiently absorbed even when administered with food.

**Handling Precautions**

Sulfadimidine may possibly affect development and/or reproduction. Trimethoprim may possibly affect bone. Handle with care.

For more information on Bromo Tmps refer to our website.
The world’s most advanced nebuliser technology

Medivet’s MPTS360 is patented technology and 100% Australian owned which provides a complete state-of-the-art Training System that features breakthrough Dual-Nebulisation Technology through both Ultrasonic Nebulisation and Jet Nebulisation technologies to ensure your horse or camel receives the most effective delivery of any medication and treatment.

What are the Benefits of Oxygen Therapy (Hyperoxic Training)?
- Minimise the release of hydrocortisone (stress hormone) which can inhibit positive immune responses.
- Increase the oxygen processing capacity of cell mitochondria, prolonging aerobic metabolism by the cell for longer, more intense training sessions at lower risk of tissue damage.
- Preventing the decrease in arterial oxygen concentration during high intensity exercise which causes fatigue and the formation of lactic acid.
- Increase the rate of replenishment for arterial oxygen concentration during recovery for faster dissipation of lactic acid.
-Enhanced post-race recover time.

What are the Benefits of Altitude Training (Hypoxic Training)?
- Respiratory system adaptation resulting in improved lung tissue where damaged increased Hypoxic Ventilatory Response increased minute ventilation, total and vital lung capacity.
- Deeper Breathing – Engages greater lung volume for oxygen transfer.
- Release of Bicarbonate into blood stream – Prevents Hyperventilation.
- Cardiovascular system adaptation resulting in vasodilation, increased micro-vessel density and reduced peripheral resistance decreased mean arterial blood pressure and heart rate.
- Improves Right Ventricle Hypertrophy – Improved blood transport between heart and lungs.
- Increase Haemoglobin – Required for blood transport.
- Increase 2-3 BPG – Aids in oxygen release to tissues.
- Production of Citrate Synthase – Aids in oxygen release to tissues.
- Increases Myoglobin – Increased oxygen storage in tissues.
- Promotes the release of Vascular Endothelial Growth Factor (VEGF) that plays a significant therapeutic role in the treatment and management of lung damage associated with Exercise Induced Pulmonary Haemorrhage (EIPH).
- Improved blood biochemical indices.
- Improved immunological status.
- Increased VO2 max.
- Reduced muscle damage following exercise (lower muscle enzymes).
- Smooth muscle stimulation.
- Enhanced sympatho-adrenal system.

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WHAT IS MPTS?
The Multi-Purpose Training System (MPTS360) is the world’s first Ultimate Training and Medical Delivery System for horses in all disciplines. The MPTS360 is a complete state-of-the-art Training System that features breakthrough Dual-Nebulisation Technology through both Ultrasonic Nebulisation and Jet Nebulisation technologies. The MPTS360 is also capable of providing Oxygen Therapy as well as High-Altitude Training Simulation through use of supplemental gasses, Oxygen and Nitrogen respectively. Medivet’s MPTS360 is patented technology and 100% Australian owned.

HOW DOES IT WORK?
The MPTS360 features the most advanced dual-nebulisation technology available in the world today. A study with Australia’s leading University confirmed that Medivet’s MPTS360 Nebulisers are 500% more effective than any other equine nebuliser available today in the breaking down of particles into the ideal particle distribution range of 1 to 5 microns. Whether the Ultrasonic or Jet Nebuliser Technologies is selected for use, rest assured you are using the world’s most advanced medical delivery technology for your horse(s).

WHY USE?
Horses in all disciplines can benefit from using the MPTS360. Whether the intended use is for expedited recovery from injuries or racing, improved performance, regeneration of the lungs and respiratory system or for the most advanced delivery of drugs, the MPTS360’s features provide the most advanced Technology available for benefit of all horses.

WHAT CAN BE NEBULISED THROUGH THE MPTS360?
All liquid products that can be administered through a Nebuliser can be used in the MPTS360. These include, but are not limited to:
- Bronchodilators such as Atrovent, Ventolin and Clenbuterol
- Corticosteroids such as Pulmocort, Dexamethasone and Flunixamide
- Antibiotics such as Cobactan, Excenel and Gentamicin
- Mucolytics such as Parvolex and Ambroxol
- Homeopathic Products such as Arnica Montana (Leopard’s Bane), Arsenicum Album (White Arsenic) and Rhus Toxicodendron (Poison Ivy)
- Regenerative Products such as Autologous Cond

FEATURES OF THE MPTS360
- Ultrasonic Nebuliser Delivery
- Jet Nebuliser Delivery
- Metered Dose Inhaler Delivery
- Oxygen Therapy
- Altitude Training Simulation
- Integrated Mixing Plenum – to prevent waste of nebulised solution during the exhalation.
- One Way Inlet Vents - on Integrated Mixing Plenum ensure all nebulised solution is contained within the plenum until inhaled by the animal.
- One Way Exhaust Vents - on Main Mask Chamber, directly over the nostrils ensure all inhaled air passes through the Integrated Mixing Plenum for maximum nebuliser efficiency.
- One Way Dividing Vents – separate Integrated Mixing Plenum from Main Mask Chamber to prevent mixing of exhaled air with nebulised solution.
- Multi-Fit Seal – ensures effective operation of nebuliser and training features over a range of horse and camel facial profiles.
ACS Stem Cell

Stem Cell Blood Technology

MediVet Trading’s Autologous Conditioned Serum is an unmatched progressive gene therapy that blocks and terminates the inflammatory response in the body. A variety of soft tissue inflammation sites have been successfully treated with ACS. Administration of this powerful anti-inflammatory can be injected intravenous, intra-muscular, into a joint or even nebulized into the lungs. Intravenous administration of ACS will also increase the circulation of important regenerative compounds to help fight early arthritis, synovitis, capsulitis, and generalized joint inflammation.

Benefits:

- Managing joint inflammation
- Routine joint, tendon and ligament maintenance
- Combats early signs of capsulitis, synovitis and arthritis
- Assists and prevents tendon and ligament Injuries
- Optimizing overall health and performance
- Maintain overall lung health especially after transportation to clear the lungs and eliminate any irritation.

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WHAT IS ACS?
Autologous Conditioned Serum (ACS) contains anti-degenerative compounds such as Interleukin-1 Receptor Antagonist Protein (IL-1ra). IL-1ra blocks the inflammatory mediator Interleukin-1 from binding to its receptor and triggering an inflammatory response that leads to tissue destruction.

Another important component of ACS is Interleukin 10 (IL-10) which is useful in limiting and ultimately terminating an inflammatory response.

ACS is a yellow to amber coloured liquid derived from the blood of the animal to be treated, making the treatment completely autologous.

HOW DOES IT WORK?
Blocks binding of IL-1 to stop inflammation within body.
Both limits and terminates inflammatory response in the body

WHY USE?
ACS v IRAP: IRAP has had a profound effect on the global racing industry in providing a regenerative platform to treat degenerative and/or injured joints, it was the only technology of its kind prior to Medivet Trading releasing the new generation Regenerative Technology, Autologous Conditioned Serum. Medivet Trading’s ACS uses proprietary extraction Technology combined with patented state-of-the-art photobiostimulation Technology to induce release of anti-inflammatory cytokines and inhibit pro-inflammatory cytokines from white blood cells.

ADMINISTRATION AND DOSAGE
One injection per site once to twice weekly for 3-4 times weeks. Then as necessary for maintenance
1) Intra-articular (IA) injection – For the treatment of degenerated and/or injured joints. ACS’s potent anti-inflammatory and repair properties allow for immediate relief to inflamed/injured joints through regeneration of the joint.
2) Intravenously (IV) – For an overall anti-inflammatory and pain-blocking response throughout the body. For an elite performance horse this form of administration is extremely beneficial.

No antibiotics should be used intra-articular in conjunction with ACS therapy. Oral antibiotics or anti-inflammatories are recommended to be administered post injection

STORAGE
Must be stored at -20°C (frozen) for up to 12 months
Bioavailability

Pharmacokinetic trials in horses have established that both sulfadimidine and trimethoprim are readily and rapidly absorbed after oral administration and reach therapeutic plasma levels within approximately 30 minutes of administration. Trial results demonstrate that the formulation is efficiently absorbed even when administered with food.

Handling Precautions

Sulfadimidine may possibly affect development and/or reproduction. Trimethoprim may possibly affect bone. Handle with care.

For more information on Bromo Tmps refer to our website.

Indications

For the treatment of respiratory infections in horses due to organisms susceptible to the combination of sulfadimidine and trimethoprim.

Dosage Frequency

MICs of the sulfadimidine-trimethoprim combination vary widely for the range of respiratory pathogens which are of significance in equine respiratory disease. In order to ensure efficacy against the major equine respiratory pathogens, the dose rate of Bromo Tmps Oral Powder has been calculated to produce drug levels which would be therapeutic against those pathogens for which the MIC is greatest.

Once daily dosing of Bromo Tmps Oral Powder at recommended dose rates will produce average steady state levels of sulfadimidine/trimethoprim which are effective against many of the major bacterial respiratory pathogens of clinical significance in horses in Australia.

Twice daily dosing of Bromo Tmps Oral Powder is recommended in preference to once daily dosing as the minimum (trough) concentrations of sulfadimidine and trimethoprim are potentially subtherapeutic in some individuals for some sensitive pathogens under a once daily dose regimen.

Directions For Use

For oral administration only. Administer on damp food with honey or molasses. Add one level scoop (12g) per 200kg bodyweight twice daily in feed. Twice daily dosing is recommended to maintain therapeutic levels of active drugs in all situations.

Meat Withholding Period:

DO NOT USE less than 28 days before slaughter for human consumption.

Racing/Event Withholding Period:

If used in performance animals, the regulations of the relevant authorities regarding medication should be observed.

First Aid:

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126 or in New Zealand 0800 764 766. Additional information is listed in the Material Safety Data Sheet available from RANDLAB AUSTRALIA in Australia phone (02) 9534 8207 or in New Zealand (09) 298 3072.

Disposal:

Dispose of empty container by wrapping with paper and putting in garbage. Discarded needles/sharps should immediately be placed in a designated and appropriately labelled “sharps” container.

Storage:

Store below 30°C (Room temperature). Protect from light. Keep lid tightly closed.

ACTIVE CONSTITUENT

Sulfadimidine 430 mg/g Trimethoprim 86 mg/g Bromhexine Hydrochloride 8.6 mg/g

PACK SIZE

500g tub
At AECS, we have laboratories in the United States of America, Australia and Europe in order to keep up to date with the latest in scientific and technological advancements.

Our R&D team work with inventors, and leaders in science and technology and other research companies in order to create the latest and most advanced products and bring them to the market first.

We also have a vast network of peers and clients all around the globe and we constantly work with them all year round to see what is new and exciting in the marketplace.

There is a never ending stream of new products and new techniques being used in the industry and we filter that information to our Research and Development team. They in turn verify the authenticity of these new products being used in the field.

Some of these new products do not work at all. However, some of these products do have some benefits. Our R&D team are the best in the world and can therefore modify the products to improve them even further and make them more effective and the best in the marketplace. Whether it be through using purer and more potent ingredients, modifying the volumes of each element needed, or slightly altering the formulations and composition, our team will always find a way to make any product the market leader and therefore providing the winning edge over the competition.

We share our research and latest developments with universities and other research facilities to maintain a long standing, strong and collaborative relationship.
At AECS, we have laboratories in the United States of America, Australia and Europe in order to keep up to date with the latest in scientific and technological advancements.

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We share our research and latest developments with universities and other research facilities to maintain a long standing, strong and collaborative relationship.

We have a separate Product Creation team which works hand in hand with our R&D team and our marketing team to develop the right product sizes, packaging configurations and packaging materials in order to provide our customers with the best and most effective packaging solutions.

We follow the highest standards whether it be the purity of ingredients, the latest equipment and technology, the sterility of the testing facilities, and so forth as the health and wellbeing of the animal is always first and foremost in everything we do at AECS.
We continue to look for partners and clientele no matter what corner of globe they are from.

Our network is vast - whether working with R&D or looking to be a distributor or simply a privileged customer.
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Supply to all parts of the Globe

Europe
Middle East
UAE
KSA
Asia
Australia
New Zealand
South America
South Africa
# PRODUCT LIST

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<td>CJC 1295</td>
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<td>Colix Injection</td>
<td>Flunixin Meglumine</td>
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<td>DARBE-500</td>
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<td>POTENCY</td>
<td>CONTENTS</td>
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<td>DMG</td>
<td>100mg/mL</td>
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<td>Enduro-500</td>
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<td>Enrofloxacin</td>
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<td>Meloxi Max</td>
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<td>CONTENTS</td>
<td>PACKING CONFIGURATION</td>
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<td>TB-1000</td>
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<td>Yohimbine A</td>
<td>10mg/mL</td>
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</table>
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