

PRODUCT FACT SHEET

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 by-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-Ketoglutarate, 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 day before workout and then 10ml after workout.

Storage:

ENDURO 500 should be kept in a cool dark room and out of sunlight.