



HYGAIN[®]
FEEDING CHAMPIONS SINCE 1983

Special Ingredients

Additional Amino Acids - Amino acids are provided to optimise the utilisation of the active constituents supplied. Methionine, a sulphur bearing amino acid, aids in the synthesis of cartilage and connective tissue. Methionine is also a precursor catalyst for the formation of niacinamide and the metabolism of glucosamine.

Antioxidants - Antioxidants are believed to reduce inflammation and pain by scavenging free radicals, which are thought to trigger tissue inflammation at the cellular level via oxidative reactions. Although horses manufacture their own ascorbic acid, this may not be enough to counter the physical demands placed upon them. Vitamin C is considered to be a most effective antioxidant.

Minerals - HYGAIN[®] FLEXION[®] contains Bioplex[®] chelated trace minerals. These are minerals which are bound to an amino acid or amino acid chain by means of a chemical reaction. The chelation process protects the minerals from oxidative reactions within the horse's stomach that may lead to other forms of inorganic mineral supplementation (oxides and sulphates) to become less absorbable or conflict with other nutrients which can cause gastric intestinal irritations. The BIOPLEX[®] chelates in HYGAIN[®] FLEXION[®] offer a more efficient and absorbable method of providing mineral supplementation.

Methylsulfonylmethane (MSM) - MSM is a source of bio-available sulfur. Sulfur plays a critical role in the synthesis of connective tissues, hormones and essential amino acids. Scientific research suggests that a horse should receive 1g of bio-active sulphur per day.



Flexion

[®]

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Flexion[®]

Joint Supplement

A blend of quality nutraceuticals and glucosaminoglycan (GAG) components for the nourishment of joints, cartilage and connective tissues.



Product Features

- ✓ Concentrated Dose
- ✓ 8000mg Glucosamine HCl
- ✓ 1000mg Methylsulfonylmethane (MSM)
- ✓ 3000mg Ascorbic Acid (Vitamin C)
- ✓ Chelated Minerals
- ✓ Suitable for all equine activities
- ✓ Available in 1.2kg, 4kg & 10kg

Active Constituents per 20g dose

Glucosamine HCl.....	8000mg
Methylsulfonylmethane (MSM).....	1000mg
Ascorbic Acid (Vitamin C).....	3000mg
Lysine.....	200mg
Methionine.....	500mg
Copper.....	70mg
Manganese.....	250mg
Zinc.....	200mg

Application of Use

HYGAIN[®] FLEXION[®] is suitable for all classes of horses.

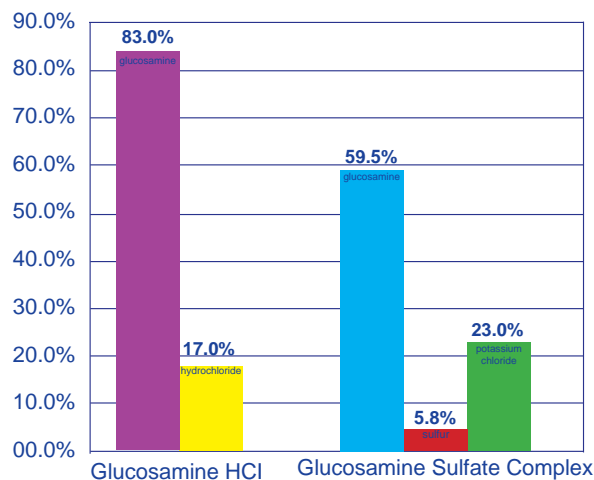
HYGAIN[®] recommends that horses should be initially dosed with 2 level scoops per day for 30 days. After that period a maintenance dose of one level scoop per day is required. One level scoop equals 20 grams.

Special Ingredients

Glucosamine - The main action of glucosamine on joints is to stimulate the manufacture of substances necessary for joint synthesis. Glucosamine is required by the body for the synthesis of an important family of macromolecules called glucosaminoglycans (GAGs). These long chains of modified sugars (mucopolysaccharides) make up many body tissues including tendons, ligaments, and cartilage. Researchers have found that glucosamine is the key precursor for all the various sugars found in (GAG), and further, that glucosamine occupies the pivotal position in connective tissue synthesis by stimulating collagen production. The lack of glucosamine in the joints may lead to specific tissue weakness. As tissues in the joints become damaged, the lubricating synovial fluid in the joint spaces becomes thin and watery. Therefore the normal cushioning effect within the joint is lost, leaving the bones and cartilage to grind against each other inside the joint space, eventually leading to pain, inflammation and osteoarthritis.

Glucosamine HCl has the advantage of being more absorbable than other (GAG) products currently available such as chondroitin sulphate, shark cartilage and N-acetyl-glucosamine (NAG). The molecules in these products are up to 250 times larger than those of Glucosamine HCl, thereby making their absorption far less effective and reliable. HYGAIN[®] FLEXION[®] has been formulated with Glucosamine HCl as it contains more glucosamine per molecule than the Glucosamine Sulphate Complex, as can be seen in the graph.

Glucosamine HCl vs Glucosamine Sulfate



Lysine - Also required to aid in the synthesis and repair of connective tissues