

NATURALLY SUPERIOR!

Gold with Amylase



GOLD

HI-PERFORMANCE FORMULA FOR ATHLETIC HORSES

GOLD

GOLD WITH AMYLASE - THE WINNING EDGE!

THE ULTIMATE IN PERFORMANCE NUTRITION - Gold with Amylase!

EQUUS GOLD with **AMYLASE** is a high energy 14% protein diet specifically formulated to be fed to racing horses and other active horses performing strenuous athletic work. Its high starch digestibility and nutrient density gives horses an ideal base to achieve their full athletic potential.

EQUUS GOLD contains the digestive enzyme **AMYLASE** and is balanced for essential nutrients such as protein, energy, calcium, phosphorus, electrolytes, minerals (including chromium) and vitamins.

UNIQUE FORMULATION

Naturally the best!

Equus Gold has been scientifically formulated to ensure safe and highly efficient starch digestion in the small intestine.

High starch digestibility has been attained by the addition of Amylase, by specially selecting ingredients that have a natural high starch digestibility and by heat treatment of selected ingredients.

Equus Gold has been manufactured using these criteria to ensure the very best in nutritional digestibility, coolness and safety.

AMYLASE - LEADING THE WAY

Naturally, Effectively & Safely!

Equus Gold contains added Amylase to aid starch digestion in the small intestine naturally, effectively and safely without the need for expensive heat processing.

The addition of Amylase to **Equus Gold** is one of the most advanced improvements in performance horse nutrition to occur in many years.

Amylase is a natural protein enzyme that is responsible for efficient starch digestion in the small intestine.

Horses do not produce adequate Amylase necessary for the digestion of large amounts of starch, this is why they have more problems digesting starch compared to other grain eating animals.

Lack of Amylase can result in incomplete starch digestion in the small intestine resulting in excessive undigested starch reaching the large intestine where it is fermented producing lactic acid. Excessive lactic acid can cause serious problems such as caecal acidosis which can lead to colic, laminitis, diarrhoea and poor fibre digestion.

Improve Your Own Grain

If **Equus Gold** is fed at a rate of 3kg per day along with your own grain, enough Amylase will be consumed to have a beneficial effect on the digestion of starch in the extra grain.

HIGH DENSITY

Less feed required!

This highly digestible formula gives you the added benefit of less feed being required to achieve optimum performance. With more goodness in every mouthful shy and finicky eaters will have less difficulty in consuming adequate nutrients for sustained performance.



Superior Quality

HI-LYSINE

For strong muscle growth and recovery!

Protein is made up of components called amino acids, of which some must be provided via the diet and others synthesised by the animal. Amino acids needed to be supplied via the diet are called essential amino acids, of these lysine is normally the one most likely to be in short supply.

Equus Gold is balanced for essential amino acids, particularly lysine.

The high lysine and balanced protein of **Equus Gold** ensures efficient protein utilisation, improved growth in young horses, enhanced strength and muscle tone and aids in muscle recovery after strenuous exercise.





BALANCED ENERGY

Sustained Performance!

Equus Gold has the ideal balance of energy sources from highly digestible starches, carbohydrates and natural oils which ensures glucose levels are maximised during strenuous exercise to provide optimal sustained performance.

Maximum athletic performance will be hard to achieve if energy is not supplied in the correct balance of digestible carbohydrates and oils.

Carbohydrates

Carbohydrates are divided in two main groups, structural and non-structural. Structural carbohydrates make up the fibre component found in plants. Fibre supplies energy, but not in adequate amounts for sustained strenuous exercise.

Non-structural carbohydrates such as grain starch, sugar and glucose are highly digestible.

Starch

Grain is a rich source of starch which is an important energy source for active horses. Grain starch that is digested in the small intestine yields high energy glucose which is absorbed into the blood stream and used for energy production. Glucose not used immediately is stored as glycogen in the muscle and liver.

During strenuous exercise blood glucose levels decrease resulting in stored glycogen being converted back to glucose. If there is inadequate glycogen stored sustained

performance will not be maintained and fatigue will set in resulting in sub-optimal performance.

Natural Oils

Equus Gold is high in natural oils necessary for sustained endurance. Oils provide a highly digestible and efficient concentrated energy source which spares muscle and liver glycogen thereby prolonging the onset of fatigue. Oils create less body heat when used for energy production resulting in reduced heat stress, sweating and electrolyte loss.

Oil contains approximately two and a quarter times more energy than carbohydrates and has an excellent balance of essential omega fatty acids. Omega fatty acids impart an attractive sheen to a horse's coat, are important for maintaining healthy skin and are necessary for many biological functions. They also aid in the absorption and storage of the fat soluble vitamins A, D, E and K.

ORGANIC CHROMIUM

Enhanced performance!

Research has shown beneficial responses to supplementing diets with organic chromium where high stress, strenuous activity is performed. Organic chromium has been added to **Equus Gold** to help maintain chromium levels during strenuous activity, this improves the body's sensitivity to insulin, which in turn improves glucose utilisation and therefore the horse's performance.



ELECTROLYTES

THE RIGHT BALANCE!

Equus Gold contains essential electrolytes to aid in the prevention of deficiencies, particularly potassium, sodium and chloride. Under normal conditions no extra electrolyte supplementation will be necessary. Where moderate to heavy sweating occurs it may be necessary to supplement extra sodium chloride (salt) and to a lesser extent potassium. This can be done cheaply and effectively without the need to buy expensive electrolyte mixes.

The following chart indicates the approximate amount of electrolytes that a 450 kg horse is likely to require in addition to that supplied by Equus Gold.

Points to note when feeding electrolytes

- When dosing high levels of electrolytes it is important to ensure that fresh drinking water is available at all times. This will allow the horse to regulate its fluid intake and ensure that dehydration does not occur.
- Only administer high levels of electrolytes when heavy sweating has occurred.
- It is recommended that electrolytes be added to the food or administered as a drench.
- Do not add electrolytes to the drinking water as the horse will not be able to regulate its water / electrolyte balance and problems may occur.
- If the drinking water has a high mineral content, such as bore water, it is recommended that you discuss the feeding of extra electrolytes with your veterinarian before proceeding.

ELECTROLYTE CHART

SODIUM & CHLORIDE (SALT) REPLACEMENT

| | |
|--------------------------------|--------------------------------|
| Mild sweating | Nil |
| Moderate sweating | 25 to 75 gms of salt per day |
| Heavy Sweating | 75 to 125 gms of salt per day |
| Excessive & prolonged sweating | 125 to 225 gms of salt per day |

SODIUM, CHLORIDE (SALT) & POTASSIUM REPLACEMENT

| | |
|--------------------------------|--|
| Mild sweating | Nil |
| Moderate sweating | 30 to 100 gms of salt & potassium mix per day |
| Heavy Sweating | 100 to 175 gms of salt & potassium mix per day |
| Excessive & prolonged sweating | 175 to 300 gms of salt & potassium mix per day |

SALT & POTASSIUM MIX

There are two options that can be used to make this mixture:

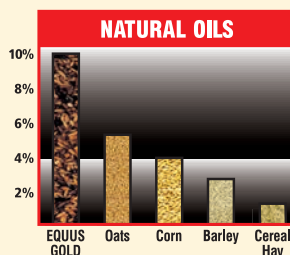
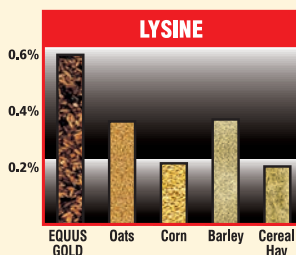
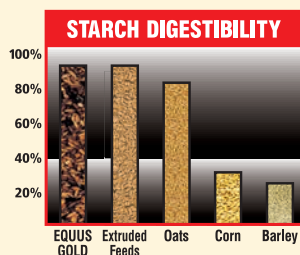
Mixture 1. Mix equal parts of "Lite Salt" * and salt.

Mixture 2. Mix 75% salt with 25% potassium chloride.

Both mixtures are similar and will provide the main electrolytes sodium, chloride and potassium in a balanced ratio to each other

* "Lite salt" (or similar products that contain approximately half salt and half potassium chloride) is a mixture of salt and potassium chloride and can be purchased at most supermarkets or grocery stores.

COMPARITIVE NUTRIENT GRAPHS



ANALYSIS & INGREDIENTS

PROTEIN 14% min.

OIL 10% min.

FIBRE 12% max.

Equus Gold has been formulated from a selection of the following quality ingredients and/or their by-products: Oats, Lupins, Corn, Sunflower, Beans, Peas, Canola, Soya, Rice, Barley, Bran, Pollard, Vegetable Oil, Molasses, Amylase, Organic Chromium, Electrolytes, Vitamins and Minerals as listed below.

VITAMINS, MINERALS & ELECTROLYTES

Equus Gold fed at the rate of 6.0kg per day along with 4.5kg of roughage will approximately provide the following levels of vitamins and minerals:

TRACE MINERALS & ELECTROLYTES

| | |
|----------------|-----------|
| Iron (Fe) | 1,758 mg |
| Copper (Cu) | 181 mg |
| Manganese (Mn) | 789 mg |
| Zinc (Zn) | 737 mg |
| Chromium (Cr) | 1,200 mcg |
| Cobalt (Co) | 3,110 mcg |
| Iodine (I) | 2,060 mcg |
| Selenium (Se) | 2,660 mcg |
| Calcium (Ca) | 70 gm |
| Phosphorus (P) | 34 gm |
| Magnesium (Mg) | 22 gm |
| Sodium (Na) | 39 gm |
| Chloride (Cl) | 70 gm |
| Potassium (K) | 100 gm |

VITAMINS

| | |
|------------------------------|------------|
| Vitamin A | 173,400 iu |
| Vitamin D ₃ | 9,090 iu |
| Vitamin E | 1,399 mg |
| Thiamine (B ₁) | 91 mg |
| Riboflavin (B ₂) | 94 mg |
| Pyridoxine (B ₆) | 50 mg |
| Folic acid | 32 mg |
| Pantothenic acid | 114 mg |
| Niacin | 302 mg |
| Choline | 10,890 mg |
| Biotin | 3,950 mcg |
| Vitamin B ₁₂ | 210 mcg |

DAILY FEEDING CHART

| | Horse weight | Equus Gold | Hay # |
|--|--------------|------------|--------|
| Intense work | 450 kg | 6.0 kg | 4.5 kg |
| Moderate work | 450 | 4.0 | 4.5 |
| Light work | 450 | 2.5 | 5.5 |
| Weanling, moderate growth (6 months) | 200 | 4.0 | 2.0 |
| Weanling, rapid growth (6 months) | 200 | 4.5 | 2.0 |
| Yearlings, moderate growth (12 months) | 300 | 4.0 | 3.0 |
| Yearlings, rapid growth (12 months) | 300 | 4.5 | 3.0 |
| Long yearlings at rest (18 months) | 365 | 3.5 | 4.0 |
| Long yearlings in training (18 months) | 365 | 5.0 | 4.5 |
| Two year olds at rest | 410 | 2.0 | 5.0 |
| Two year olds in training | 410 | 4.5 | 5.0 |
| Early lactation | 450 | 5.5 | 6.0 |
| Late lactation | 450 | 3.0 | 6.0 |
| Breeding stallions | 450 | 2.5 | 5.5 |

Do not feed more than approximately 0.65% of body weight (3kg for a 450kg horse) of **Equus Gold** in a single meal

Hay, chaff or pasture at 9% protein

ENERGY & COOLNESS RATING



The innovative energy and coolness rating system is designed to make it easier to understand the differences in the energy and coolness of the various foods in the **Equus Range**. Energy and coolness are both rated on a scale of one to six. A rating of six for energy indicates the energy level of that food is very high and a rating of six for coolness indicates that particular food is very cool.

Laucke Mills *Since 1899*

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