

### The System

Futurity Precise® Hoof & Health products are premium quality nutritional supplements designed especially for horses to deliver recommended levels of nutrients essential for balanced diets. As the name indicates, all Hoof & Health products contain the added benefits of biotin, methionine and organic trace minerals, ingredients that are essential for hoof quality and overall horse health. These highly palatable supplements are available in both free-choice and top-dress options and are available with or without protein to fit the specific housing and nutritional needs of *your* horse. The need for weighing or mixing of numerous supplements is eliminated when using the Futurity Precise® equine supplement system. Our equine nutritionists have formulated these products to complement typical horse diets, which means you have the convenience and peace of mind knowing your horse is getting complete supplementation in one, easy to use product. The Futurity Precise® program provides superior nutrition and convenience you can count on!

#### Complete Supplementation

To provide your horse with a firm foundation for maximum performance, he must be provided with all essential nutrients. When dietary levels of any nutrients are less than optimal, horse health and performance can suffer. Due to the complex interactions between these nutrients within the body, megadoses of only one or two nutrients rarely correct individual problems. Furthermore, the mixing of several different commercial supplements may result in unwanted mineral imbalances. For this reason, a *single, well-balanced supplement* is preferred over mixing a variety of supplements. That's just what you'll find with the supplements in the Futurity Precise® program.

Futurity Precise® supplements are designed to complement typical horse diets by delivering a high quality mineral and vitamin package that includes biotin, methionine and organic trace minerals including zinc methionine for hoof and health benefits. The Hoof & Health supplementation program was designed to allow you to easily switch between products without sacrificing your horse's mineral and vitamin nutrition. Table 1 shows the levels of some of the nutrients provided each day with the Futurity Precise® program. In addition to the nutrients listed, each Futurity Precise® product delivers necessary calcium, phosphorus and salt, essential macro-

minerals in your horse's diet. Salt and trace mineral blocks are not necessary or recommended when using Futurity Precise® products. The Futurity Precise® system also gives you two supplement options that contain 16% protein for times and situations where protein supplementation is necessary in your horse's diet.

#### The Advantages of Organic Trace Minerals

All Futurity Precise® equine supplement products contain organic trace minerals produced by Zinpro®. Organic sources of zinc, manganese, copper and cobalt are more easily digested and utilized by your horse than inorganic mineral sources because they are less likely to interact with antagonists present in the diet. This can be especially important when horses are exposed to stress or have increased mineral requirements due to performance, reproduction, lactation or

growth. Research has also shown that organic trace minerals as part of a balanced diet can improve hoof growth, enhance immune response and increase forage digestibility. The addition of organic trace minerals in Futurity Precise® products ensures that your horse gains maximum benefit from the Futurity Precise® mineral package.

#### Nutritional Effects on Hoof Quality

Mineral and vitamin nutrition are vital for hoof strength and maintenance of hoof tissue. Specifically, methionine, biotin and zinc have been shown to play important roles in hoof quality and are integrated as an important component in all Futurity Precise® products. **Methionine** is an amino acid that has a critical role in the maintenance of normal skin, hooves, tendons, ligaments and cartilage. **Biotin** is involved in the maintenance of all rapidly

dividing tissues, including hoof tissue and is a component of the intracellular "cementing" substance that adheres cells together in the outer hoof wall. The key roles that **zinc**, **manganese** and **copper** play in protein metabolism is critical since the outer hoof horn is approximately 95% protein. When horses with problem hooves are supplemented with Futurity Precise®, positive nutritional effects should be evident in new hoof growth emerging from the coronary band within roughly 8 weeks. Renewal of the entire hoof requires 6 months to 1 year. Consistent supplementation is important during this time to realize maximum hoof benefits.

**Table 1. When fed at the recommended levels, Futurity Precise® products deliver the following levels of these nutrients:**

	Min	Max
Methionine	1.5g	3 g
Cobalt	3 mg	6 mg
Copper	100 mg	200 mg
Iodine	1.5 mg	3 mg
Manganese	250 mg	500 mg
Selenium	1.5 mg	3 mg
Zinc	337 mg	675 mg
Biotin	10 mg	20 mg
Riboflavin	10 mg	20 mg
Thiamin	15 mg	30 mg
Vitamin A	15,000 IU	30,000 IU
Vitamin D-3	4,125 IU	8,250 IU
Vitamin E	250 IU	500 IU

## **Nutritional Effects on Immunity & Health**

Mineral and vitamin nutrition also play a critical role in the functioning of the immune system and overall horse health. **Copper, zinc, selenium, manganese** and **vitamin E** are involved in antioxidant activity that protects cell membranes from damage caused by free radicals. The need for antioxidants increases with the onset of infections or wounds, injuries such as sprains and strains, stress of any type and exercise. Adequate anti-oxidant function helps the strength of the immune system and decreases healing time for any of the ailments listed.

## **Additional Nutritional Benefits**

The B vitamins, **riboflavin** and **thiamin** provided in Futurity Precise® Hoof & Health Supplements play a critical role in energy and protein metabolism among other functions. B vitamin supplementation is recommended in horses being heavily exercised, horses not eating normally, horses with

high grain intake and horses under stress of any type. Reproductive performance can be appreciably affected by key dietary mineral and vitamin levels including: **phosphorus, calcium, copper, selenium, manganese, iodine, cobalt, zinc, vitamin A, vitamin D** and **vitamin E**. For example, copper deficiency can result in delayed estrus, reduced libido, infertility, early embryo death, necrosis of the placenta and developmental diseases in foals. Marginal selenium deficiencies can result in impaired fertility, silent heats, cystic ovaries and the birth of unthrifty foals with poor immunity. Zinc is essential for sexual maturity, onset of estrus, and sperm quality.

Finally, Futurity Precise® Hoof & Health Supplements provide necessary dietary salt as part of a complete dietary supplement. Salt is vital for a variety of functions ranging from nerve transmission and sweating to formation of digestive acids.

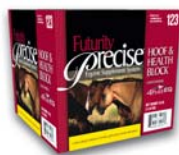
## **The Components**

As previously mentioned, each of the Futurity Precise® supplement products contain standardized levels of minerals and vitamins to complement typical horse diets in order to meet or exceed requirements. The following products are components of the Futurity Precise® Hoof & Health supplement system.

### **MINERAL & VITAMIN SUPPLEMENTS**

Mineral and vitamin supplements should be used for horses that receive daily grain rations, high quality legume hay or when individual needs do not show a need for additional dietary protein.

#### **Hoof & Health Block:** Mineral and vitamin supplement block



formulated and designed to be fed free choice to horses in pastures or paddocks\*. Consistent consumption of 3-6 oz. each day ensures your horse gets what he needs. This weather resistant block is available in a box with convenient carrying handle. Two mature horses (1000 lbs each) should consume a block in

approximately 1-2 months.

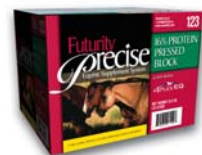
**Hoof & Health Mineral:** Granular mineral and vitamin supplement that is best suited for top-dressing and mixing with grain rations. This supplement also works well for free choice supplementation (but the Hoof & Health Block is the preferred free choice supplementation option when protein is not required). Each 25 lb bag of Hoof & Health Mineral contains a convenient scoop, provided to make feeding simple. Your horse should be supplemented with 3-6 oz. per day based on weight, age, performance level, class, reproductive status and overall diet. A bag of Hoof & Health Mineral should last 2 mature horses (1000 lbs each) approximately 1-2 months.



### **PROTEIN, MINERAL & VITAMIN SUPPLEMENTS**

Protein, mineral and vitamin supplements should be fed to horses that do not receive grain supplementation or whose individual needs dictate that additional protein is necessary in the diet. The protein in Futurity Precise® products is provided by high quality sources that are readily utilized by a horse's unique digestive system.

#### **Hoof and Health Protein Block:** Convenient mineral,



vitamin and 16% protein supplement perfect for free choice supplementation in pastures or paddocks\*. This weather resistant block comes in a cardboard box with a convenient carrying handle. Horses will consume 1-2 pounds per head daily so a 33.3 lb block will last 2 mature horses (1000 lbs each) approximately 1-2 weeks.

#### **Hoof & Health Protein Tub:** Additional option for convenient mineral, vitamin and 16% protein supplementation\*.

This supplement should be provided free choice in pastures or paddocks and is extremely weather resistant. Packaged in a 50# tub with a lid that can be used for storage or feeding when the product is gone. Horses will consume 1-2 pounds per head daily. A 50# tub will last 2 mature horses (1000 lbs each) approximately 2-3 weeks.



\*Free choice supplement products should be placed near water and loafing areas to encourage consistent consumption. Do not supply stalled horses with free choice products as increased consumption may occur out of boredom. Make sure to read and follow all label instructions when feeding any Futurity Precise® products.

As part of a balanced diet, **Futurity Precise® Hoof & Health Supplements** are designed to provide your horse with all the supplemental nutrients he requires in one single, scientifically formulated package.

For more information please visit our web site at [www.futurityprecise.com](http://www.futurityprecise.com) or call 1-888-4HORSE4.