



We realize that there are many variables involved and so many choices out there when it comes to selecting the right supplement(s) to complement your nutrition program for your horse. At **MVP**, we stand behind our products and take pride in making that job easier for you and your customers. **MVP** is a founding member of the NASC (www.nasc.cc), your guarantee to purchasing the highest quality supplements available in the market today.

WHAT'S INSIDE:

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Laminitis

Laminitis is something a horse owner never wants to hear their horses has been diagnosed with. With the right program in place, the good news is that the majority of horses may be able to lead a comfortable life. Although high performance horses might not be able to compete at the same level or return to competition, a lower key lifestyle is still an option. We have put together some information and tips to help support horses that have been diagnosed with this disease.

Main Causes of Laminitis

- **Raised Insulin levels** – This is the most common problem found in horses with laminitis. Caused by high levels of sugar and starch in the diet, horses are overweight and not receiving enough exercise.
- **Hay/Pasture too high in NSC** (non-structural carbohydrates) – the horses cannot break the fructan down into a simple sugar, fructose to be digested.
- **Sepsis poisoning** – caused by a grain overload. The hindgut bacteria are destroyed and endotoxins enter the bloodstream.
- **Other causes** – hyper retained placenta, trauma, physical demands on horse's feet, hospitalization and an overload of selenium or iron.

Since insulin resistance is one of the major causes of laminitis it's important to have the proper program in place to help a laminitic horse get comfortable and to prevent reoccurrences.

Learn more about these key ingredients that will help support your laminitic horse

MSM

Methylsulfonylmethane (MSM) is a naturally occurring source of sulfur that helps support normal inflammatory response. Sulfur is necessary for the production of collagen, glucosamine, and chondroitin, all of which are building blocks of cartilage. Has antioxidant effects to help create new cells and helps repair and replace damaged tissue.

Magnesium

Helps support normal muscle function and support glucose metabolism. Ideal ratio of Calcium to Magnesium is 2:1. Horses on a high calcium diet (alfalfa hay) may require additional magnesium.

Glucosamine

Considered the building block of cartilage and all other connective tissue throughout the body. Glucosamine stimulates the production of chondroitin sulfates, inhibits enzymes and free radicals that compromise cartilage integrity. This is a type of sugar that is found concentrated in joint cartilage. In addition, it stimulates the production of GAGs glycosaminoglycan's by joint cartilage and increases the utilization rate of chondroitin sulfate. Maximum effect is seen when fed in conjunction with MSM. Insufficient levels of glucosamine in the joints can lead to deterioration of cartilage/joint integrity. As horses age, the production of glucosamine decreases, so it's important to supplement appropriately.

Yucca

Is an antioxidant and works as a free radical scavenger. It contains saponins, which disrupt chemicals that prevent growth of new cartilage.

Devils Claw

A South African herb that has been used to help maintain joint mobility and support immune system function. May help ease aches and discomfort associated with normal daily exercise and/or competition and training.

Siberian Ginseng

Siberian Ginseng is well known for its ability to support and enhance adrenal function. Adrenal function is associated with greater energy and better reaction to stress. It will also support and strengthen the immune system. It maximizes the utilization of oxygen by working muscles, keeping them in an active state for a longer period of time. Siberian ginseng is a powerful tonic herb with an impressive range of health benefits.

Turmeric Root Powder

Is an antioxidant and cox-2 inhibitor, which will help support normal inflammatory response.

Boswellia Extract

Boswellia is an ancient herb that had been used for decades to help maintain cartilage and joint/connective tissue. In the 1970s German scientists discovered that boswellia may reduce swelling/tenderness.

Hyaluronic Acid

Is found in the synovial fluid within the joints, it plays a key role in joint lubrication by binding water/moisture in the joints and attaches to collagen and elastin to form cartilage. Synovial fluid is the only way nutrients can be carried into cartilage.

Grape Seed Extract

A very powerful antioxidant from the red grape. It has been found to help support the hindgut and reduce blood glucose levels. It protects small blood vessels from damage to their walls which may help support normal inflammatory response.

Biotin

A B vitamin, involved in glucose metabolism, growth and utilization on niacin. Essential in the maintenance and growth of healthy hooves. Horses with poor quality hooves may benefit from biotin supplementation at a level of 10-30mg per day. Because Biotin is a B vitamin they are water soluble and float freely through the fluids of the body. Once they are absorbed in the blood stream they will circulate and be taken in by cells or eliminated. Because of this elimination they must be replenished on a daily basis.

Chromium

An important trace mineral that assists in regulating blood sugar and the glucose tolerance in blood along with processing of glucose and keeping levels stable.

Direct Fed Microbials

Aids to leverage intestinal (gut) integrity in the presence of stress. Both pre-biotics and pro-biotics are beneficial not only in prevention of ulcers but they help support digestion and boost the immune system. It's very important to feed the gut as stress which is brought on by the pain associated with laminitis causes the good bacteria to be compromised. ■

Monthly Tips

- Exercise is very important to a horse with laminitis. This has many benefits which include improving insulin sensitivity and to reduce inflammation that has built up in the body.
- Minimize grazing to early morning when sugar levels are at their lowest. The highest instances of laminitis are reported in the spring and fall when sugar levels are at their highest.
- Make sure you are feeding a low NSC (non-structural carbohydrates) hay and offer it free choice. Your horse will moderate their intake after a couple of weeks and he will avoid going into starvation mode which increases insulin in the body.
- Breeds most affected are ponies, donkeys, miniature horses, morgans, Arabians, quarter horses, and drafts breeds. Laminitis can creep up so monitor your horse's weight and hoof condition.



Q&A from our Customers

Q: My mare has been foundered in the past and recently I have changed boarding facilities and she has been slightly stressed with the move. I'm worried with the added stress that it will cause her founder to flare up again. Do you have any suggestions from a nutritional standpoint that can help maintain her? Thanks!

A: Your mare sounds like a horse that would do well on our **Laminex™** product which is a nutritional support formulated for horses that have foundered. This product added to your current feed program can be combined with hay pellets or beet pulp as a low calorie alternative to grain. To keep stress levels down make sure any changes occur gradually and offer free choice low calorie hay to keep the cortisol levels from rising which increases the insulin in the body.



The Trusted Brand!



MEMBER OF



FEATURED PRODUCT



LAMINEX™ provides a concentrated source of key ingredients (msm, magnesium, biotin, devils claw) to support circulation of blood vessels to the laminae with the hoof. After supplementing **LAMINEX™** for 8-12 weeks, products such as **D-Carb Balance™**, **Anti-Carb™**, or **Carb-X™** may be indicated in lieu of **LAMINEX™** for continued maintenance, providing the needs are to help support glucose metabolism and blood sugar levels within normal ranges.

ACTIVE INGREDIENTS (Per 5 oz serving):

MSM.....	10,000mg	Copper	300mg
Magnesium	6,210mg	Ascorbic Acid (Vit. C).....	250mg
Glucosamine Hcl.....	2,500mg	Lipoic Acid	250mg
Yucca Schidigera Extract.....	2,000mg	Calcium.....	113mg
Devils Claw Extract.....	2,000mg	Vitamin B5	55mg
l-Lysine	4,000mg	Hyaluronic Acid.....	50mg
Creatine.....	3,000mg	Grape Seed Extract.....	50mg
l-Glutamine.....	2,450mg	Vitamin B1	35mg
Zinc	1,050mg	Vitamin B6	32mg
Siberian Ginseng	1,000mg	Niacin	30mg
dl-Methionine.....	1,000mg	Vitamin B2	25mg
Potassium.....	790mg	Vitamin K.....	23.5mg
Manganese	500mg	Folic Acid	20mg
Tumeric Root Powder.....	500mg	Biotin.....	15mg
Boswellia Extract	500mg	Selenium	3.25mg
Taurine	500mg	Iodine	3.2mg
Arginine	500mg	Chromium (yeast)	3mg
Ginger Root.....	500mg	Vitamin B12	210mcg
Citrus Bioflavonoids.....	500mg	Vitamin A.....	36,900 IU
N-Acetyl Cysteine.....	500mg	Vitamin D3	5,500 IU
l-Threonine	425mg	dl-Alpha Tocopheryl (Vit. E)	3,500 IU
Pancrelipase.....	425mg	Direct Fed Microbials.....	2 billion CFU's*
Choline	310mg		*Colony Forming Units

DIRECTIONS FOR USE:

Adult Horses (900-1,100 lbs):

Provide 2.5 ounces twice daily for the first 12 weeks.

Reduce to 2.5 ounces daily for maintenance.

LAMINEX™ (Pellet)

INITIAL DOSAGE	MAINTENANCE	
10 lb (32 servings)	(64 servings)	\$121.50 (MSRP)
25 lb (80 servings)	(160 servings)	\$264.75 (MSRP)

Cost approx. \$3.80/Loading dose.
Approx \$1.90 maintenance daily.