HI FORM

THE SCIENCE OF NATURAL HEALTH

TOPLINE

Product Information Guide

TOPLINE

A natural way to acheive top line

MUSCLE GROWTH

TopLine is excellent in support of muscle growth as well a
for horses with a poor appetite or in a rundown
condition.

TopLine DOES NOT contain whey powder, used in most muscle building products for humans and horses. Whey protein is the protein that is derived from whey, which is a by-product of the cheese made from cow's milk! Horses are herbivores, whey should not be fed to them. TopLine does NOT contain FISH products or other by-products which are totally unsuitable for herbivores!

Tissue Salts re-establish balance
Don't get mineral tissue salts confused with crude minerals. Biochemical tissue salts, or cell salts, are mineral salts that exist in the cells and play a critical role in cellular metabolism. The salts are administered clinically in very small doses and are prepared in a way similar to homeopathic remedies. Hi Form uses these mineral salts in most of their formulas, along with specific, organic herbs and herb extracts, amino acids, vitamins and trace elements

TopLine contains amino acids including L-Arginine which has a role in promoting the growth hormone and is involved in the immune response.
The first amino acid is a major precursor of both thyroid and adrenal cortical hormones, (adrenaline, dopamine and noradrenaline) which also regulates blood pressure and improves both mental and physical performance.
The second amino acid has a known and proven ability to promote growth hormone production. Muscle building is enhanced by its supplementation, and the stimulation of growth hormone improves immune response, allowing your horses' bodies to repair itself more effectively.
In turn, the release of extra growth hormones can lead to the metabolism of stored fat and the building up and tone of muscle tissue.
The Ginseng used in the TopLine helps to increase mental alertness. The several hormone-like substances in this herb are thought to account for its simultaneously sedative and stimulating effect n the central nervous system.

HI FORM EQUINE

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Feed rates:

300kg Pony	10g (1 Large Level Scoop)
500kg Horse	20g (2 large Level Scoops)
600+kg Horse	30g (3 Large Level Scoops)

Feeding Instructions:
Mix well into slightly damp feed.

Key Ingredients:
EquiSoy, Siberian Ginseng, L -Arginine, L-Tyrosine, and Saccharomyces cerevisiae (Brewer's Yeast)

VITAMINS
Vitamin B3 (Niacin) 39709.1 mg/kg
Vitamin B5 (Pantothenic Acid) 38001.1 mg/kg
Vitamin B6 (Pyridoxine) 8063.58 mg/kg

MINERAL TISSUE SALTS
Tricalcium Phosphate 24000 mg/kg
Trimagnesium Phosphate 14000 mg/kg
Monopotassium Phosphate 10000 mg/kg
Potassium Chloride 10000 mg/kg
Sodium Sulphate 10000 mg/kg
Monosodium Phosphate 10000 mg/kg
Calcium Sulphate 3000 mg/kg
Iron Phosphate 12000 mg/kg
Zinc Sulphate 3000 mg/kg/kg

MAJOR MINERALS
Calcium 11.1532 g/kg
Phosphorus 15.8132 g/kg
Sodium 5.52018 g/kg
Chloride 6.4996 g/kg
Potassium 19.2298 g/kg
Magnesium 3.06223 g/kg

TRACE MINERALS
Zinc 1084.03 mg/kg
Iron 2813.3 mg/kg

AMINO ACIDS
Lysine 15.7818 g/kg
Methoinine 3.6408 g/kg
Leucine 18.4467 g/kg
Isoleucine 11.6506 g/kg
Cystine 3.88352 g/kg
Phenylalanine 12.6214 g/kg
Tyrosine 89.2101 g/kg
Arginine 98.3214 g/kg

FATTY ACIDS
Linolenic Acid (Omega 3) 4.736 %
Linoleic Acid (Omega 6) 33.2112 %
Oleic Acid (Omega 9) 12.0176 %

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References

Supplemental
L -Arginine Shortens Gestation Length and Increases Mare Uterine Blood Flow before and after Parturition
Chris J. Mortensen MS, PhD, Dale E. Kelley MS, Lori K. Warren MS, PhD
From the Department of Animal Sciences, Institute of Food and Agricultural Sciences, University of Florida, Gainesville, FL
Supplemental L-Arginine Shortens Gestation Length and Increases Mare Uterine Blood Flow before and after Parturition (PDF Download Available).
Available from: https://www.researchgate.net/publication/223920746_Supplemental_LArginine_Shortens_Gestation_Length_and_Increases_Mare_Uterine_Blood_Flow_before_and_after_Parturiti on [accessed Jul30, 2017].
Conclusions
Supplementing pregnant mares with Arg 21 days before EFD seemed to be safe and reduced gestation length. Additionally, supplemented mares were observed to have greater uterine arterial blood flow before, and on the days immediately after parturition. The sharp reduction in uterine arterial blood flow and diameter after parturition could be predicted as the mares transitioned from the pregnant to the nonpregnant state.

Neural Regen Res. 2012 Jun 25; 7(18): 1413–1419.
doi: 10.3969/j.issn.1673-5374.2012.18.008
PMCID: PMC4308793
L-tyrosine improves neuroendocrine function in a mouse model of chronic stress
Zhihua Wang,1 Jinghua Li,2 Zhiming Wang,3 Lingyan Xue,4 Yi Zhang,1 Yingjie Chen,5 Jun Su,6 and Zhongming Li5
Abstract
Adult BALB/c mice, individually housed, were stimulated with nine different stressors, arranged randomly, for 4 continuous weeks to generate an animal model of chronic stress. In chronically stressed mice, spontaneous locomotor activity was significantly decreased, escape latency in the Morris water maze test was prolonged, serum levels of total thyrotropin and total triiodothyronine were significantly decreased, and dopamine and norepinephrine content in the pallium, ippocampus and hypothalamus were significantly reduced. All of these changes were suppressed, to varying degrees, by L-tyrosine supplementation. These findings indicate that the neuroendocrine network plays an important role in chronic stress, and that L-tyrosine supplementation has therapeutic effects.

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Eleutheroside E, An Active Component of Eleutherococcus senticosus, Ameliorates Insulin Resistance in Type 2 Diabetic db/db Mice
Jiyun Ahn, 1 Min Young Um, 1 Hyunjung Lee, 1 Chang Hwa Jung, 1 Seok Hyun Heo, 2 and Tae Youl Ha 1 ,*
Nat Prod J. 2016 Mar;6(1):49-55. doi: 10.2174/2210315506999151207145020.
Effects of Eleutherococcus senticosus Cortex on Recovery from the Forced Swimming Test and Fatty Acid β-Oxidation in the Liver and Skeletal Muscle of mice.
Sumiyoshi M1, Kimura Y1.
Zhongguo Zhong Yao Za Zhi. 2008 Dec;33(23):2800-2.
[Determination of eleutheroside B in antifatigue fraction of Acanthopanax senticosus by HPLC]. [Article in Chinese]
Li C1, Wang XY, Hu XW, Fang HT, Qiao SY.
The addition of whole soy flour to cafeteria diet reduces metabolic risk markers in wistar rats Gláucia Ferreira Andrade,1 Crislaine das Graças de Almeida,1 Ana Cristina Rocha Espeschit,1 Maria Inês de Souza Dantas,1 Laércio dos Anjos Benjamin,2 Sonia Machado Rocha Ribeiro,1 and Hércia Stampini Duarte Martino 1 Vitamin B3 – Niacin – common name for nicotinic acid and nicotinamide or niacinamide. Water soluble white powder. The body can convert the amino acid tryptophan into niacin. Niacin is essential for the release of energy from food, normal growth and development, blood cell formation, hormone production, protection against cancer and the function of a healthy brain and nervous system. B3 is produced in the hind gut but little is absorbed so needs to be supplemented. A common deficiency symptom is dermatitis. Vitamin B5:- helps stimulate the adrenal glands which produce cortisones and other hormones and is useful for protecting against physical and mental stress. Vitamin B6 – (Pyridoxine) – Is involved in the release of energy from food and in the manufacture of most protein related compounds. It is essential for the manufacture of the genetic material of the cell, red blood cells, hormones, the absorption of vitamin B12 and the conversion of tryphophan to niacin. It is essential for the development of healthy cardiovascular, immune and nervous systems, skin and hair. B6 plays a vital role in the immune system by affecting functions such as cell multiplication and antibody production. Vitamin B6 is vital to the healthy development and function of the nervous system. It is involved in the manufacture of several neurotransmitter including serotonin, dopamine and noradrenalin thus playing a role in regulating mental processes and mood. B6 is essential for the horses and the micro-organisms contained in the gut.