

The Natural Product Company Ltd (trading as NPC Health)

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Data Sheet

OPTI-MIN™

Research/Development:

Provides a full range of vitamins, minerals, amino acids, salt and the live yeast *Saccharomyces Cerevisiae* for healthy digestive function.

OPTI-MIN is made for New Zealand conditions. New Zealand pasture is generally deficient or not well balanced in certain minerals, where some minerals are found in excess such as iron and manganese and others in shortfall such as iodine, sodium, copper, zinc and selenium. Vitamin shortfalls of A and E can also occur where fresh green forage is restricted.

New Zealand horses generally live on grass (of varying quality) and where some hard feed or hay may be fed. Others may require grass restriction and a carefully managed diet. Various restrictions and/or not feeding to recommended feed rates means your horse will be lower or deficient in some vitamins and minerals.

If the overall diet is not corrected and balanced accordingly, poor quality hooves, coats, lower immunity and performance results.

A good diet should cover sufficient fats, quality protein, fibre, carbohydrates (for harder working horses), as well as vitamins and minerals.

To help balance shortfall in the diet, we recommend OPTI-MIN™.

OPTI-MIN™ contains a safe level of highly absorbable organic selenium. Where it is far easier to top up a shortfall, rather than start off too high and end up with a toxicity. It also has a cumulative effect, so all selenium in the diet should be evaluated before considering more.

OPTI-MIN™ contains vitamins to support good health and also support horses under stress or illness.

Why are vitamins added?

B group Vitamins are made in the hindgut, however this is largely dependent on how well the horse digests, horses under stress or in full work have higher needs for B group vitamins. Vitamin C is made in the liver and again some horses require more if they are older, ill, under stress or in full work. B group Vitamins and Vitamin C are water soluble and are added at low levels. Any excess is excreted.

Vitamin A is found in forages but due to poor stability, unless the forage is fresh the amount quickly depletes by around 5 % per month. Vitamin E is also available in fresh, green forages such as pasture, chaffs and ensiled feeds, again dependent on access to fresh forages, in addition the amount fed. The purpose of adding vitamins is to top up a shortfall, not to take place of the diet itself.

Quality protein has a good amino acid profile covering the limiting essential amino acids. OPTI-MIN™ contains amino acids lysine, methionine and threonine (essential amino acids). These are important to ensure quality coat, hooves, growth and development and must be received in the diet.

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OPTI-MIN™ contains salt as sodium is typically low in New Zealand pastures. OPTI-MIN™ contains higher levels of copper and zinc and contains no added manganese and iron.

Recommendation:

OPTI-MIN™ is for recommended for balancing pasture conditions and/or where the diet is inadequate.

Additional Salt is recommended for working horses or where conditions are hot/humid.

Additional Vitamin E may be required for high performance horses.

Additional Selenium may be required depending on your horse's status (blood test if unsure)

Active Ingredients:

per 60 g dose.

Per 80g dose

Vitamin A 23,333 iu	31,111 iu
Vitamin B1 35mg	47 mg
Vitamin B2 40 mg	53 mg
Vitamin B3 100 mg	133 mg
Vitamin B5 50mg	67 mg
Vitamin B6 30mg	40 mg
Vitamin B12 0.33mg	0.44 mg
Vitamin C 200mg	267 mg
Vitamin D3 500 iu	667 iu
Vitamin E (natural) 667 iu	889 iu
Biotin 15mg	20 mg
Calcium 3000mg	4,000 mg
Choline 333.33 mg	444 mg
Chromium 3.33 mg	4.4 mg
Folic acid 10 mg	13 mg
Iodine 1.6 mg	2.13 mg
Lysine HCL 5000mg	6,667 mg
Magnesium 1500mg	2,000 mg
Methionine DL 2500mg	3,333 mg
Organic Copper 150mg	200 mg
Organic Zinc 450mg	600 mg
Phosphorous 1500mg	2000 mg
Selenium yeast 0.3 mg	0.40 mg
Sodium Chloride (salt) 9,219 grams	12,292 grams
Pro/pre-biotic live yeast 6,000 mg	8,000 mg (Saccharomyces Cerevisiae)
Threonine 500 mg	667 mg

SPECIAL NOTE:

Omitted are organic iron –deficiency is rare and is considered sufficient in feedstuffs.

Omitted are manganese (not to be confused with magnesium) is sufficient in feedstuffs.

Omitted are cobalt – deficiency is rare. Considered sufficient in feedstuffs.

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Increased levels of organic copper, organic zinc, methionine, lysine, threonine and sodium to promote stronger, harder hooves, efficient digestion and healthy skin and coat when fed alongside a good diet.

Chelated minerals are more bio-available with a greater degree of digestibility for enhanced absorption, which can be achieved at a lower level (see additional data recommendations)

Product Properties:

Off white/brownish powder. Low natural odour.

Example of Use:

Administer into horses feed as a nutritional daily.

Additional Product descriptive data:

Signs of dietary imbalances are:

- anaemia
- recurrent skin infections, thrush (in hooves)
- low immunity
- poor quality hooves, and/or bad cracks, thin soles
- faded or poor coat colour
- ill thrift
- poor performance and/or disposition

Factors for consideration:

- *Poor quality protein results in poor hooves and coats of horses.
- *Low energy may also result in lethargy.
- *Subclinical laminitis may result in poor hoof quality.
- *Worming and Teeth must be up to date when evaluating horse health
- *Older horses, horses under stress, illness and/or those showing signs of dietary imbalance and/or those in grazing restriction have a higher need for extra vitamins and minerals

Recommended daily dose:

30-60g daily per 500 Kg

Recommended for all horses incl. breeding mares and stallions and young stock where some hard feed or premixed feeds may be used but below recommended levels

Up to 80grams daily per 500 Kg

Recommended for horses receiving restricted grass intakes and/or mainly hay diets, with possibly no hard feed or very little

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CAUTION: Do not use 80 grams if using pre-mixed feeds (feeds with additional vitamins and minerals added) or grazing high quality, lush green pastures

General Precautions:

Use as directed.

Exempt from registration under schedule 4 of the ACVM Act 1997.

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