



HERBIVORES



# Grazer Cu-controlled

Feed number: 3698

Suitable for: Copper sensitive herbivores, as for example sheep, llama, alpaca

## YOUR BENEFITS

- ◇ Copper content of around 15 ppm, especially for copper sensitive herbivores. Each batch is analyzed for copper content
- ◇ Without any soybean and palmoil products
- ◇ Balanced fiber composition, especially suitable for grazers
- ◇ Protein content adapted to the lower needs of grazers
- ◇ Little cereals and thus lower starch
- ◇ High levels of vitamin E
- ◇ High content of biotin
- ◇ Contains organic selenium, zinc and manganese sources
- ◇ No mineral iron is substituted
- ◇ Linseed products for natural omega-3-fatty acids
- ◇ Contains bicarbonate (1%)
- ◇ With an appropriate ration composition there is no need of additional supplements thanks to adequate vitamin- and mineral supplementation

**We are happy to work with you to create an individual feeding recommendation**



## TYPE OF FEED, FORM, DELIVERY QUANTITY

- ◇ Supplementary feed
- ◇ Form: pellet 4-5 mm round
- ◇ Delivery quantity: 25 kg paper bag  
pallets of 750 kg
- ◇ Product number: 3698.PA.S25

Full-scale picture of the feed  
Colours may be different from the product

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## FEED SPECIFICATIONS

### Major nutrients (%)

|               |      |
|---------------|------|
| Dry matter    | 89   |
| Crude protein | 12   |
| Crude fat     | 3    |
| Crude fiber   | 23   |
| Crude ash     | 12   |
| NFE           | 39   |
| NDF           | 41   |
| ADF           | 27.5 |
| Starch        | 4    |
| Sugar         | 7    |

### Energy (MJ/kg)

|             |      |
|-------------|------|
| GE          | 15.5 |
| ME Horse    | 6.4  |
| ME Ruminant | 8.3  |

### Macrominerals (%)

|            |     |
|------------|-----|
| Calcium    | 1.1 |
| Phosphorus | 0.7 |
| Magnesium  | 0.3 |
| Sodium     | 0.7 |
| Potassium  | 1.5 |
| Chlorine   | 0.3 |

### Trace elements (mg/kg)

|           |     |
|-----------|-----|
| Iron      | 600 |
| Zinc      | 223 |
| Copper    | 15  |
| Iodine    | 2.2 |
| Manganese | 157 |
| Selenium  | 0.7 |
| Cobalt    | 1.4 |

### Vitamins (added, mg/kg)

|                    |       |
|--------------------|-------|
| Vitamin A (IU/KG)  | 14000 |
| Vitamin D3 (IU/KG) | 2500  |
| Vitamin E          | 2000  |
| Vitamin K3         | 0.9   |
| Vitamin B1         | 12    |
| Vitamin B2         | 11    |
| Vitamin B6         | 8     |
| Vitamin B12        | 0.05  |
| Nicotinic acid     | 90    |
| Pantothenic acid   | 36    |
| Folic acid         | 1.5   |
| Biotin             | 7     |
| Choline            | 160   |
| Vitamin C          | 17    |

### Amino acids (%)

|                      |      |
|----------------------|------|
| Arginine             | 0.63 |
| Lysine               | 0.55 |
| Methionine           | 0.20 |
| Methionine + Cystine | 0.37 |
| Tryptophan           | 0.17 |
| Threonine            | 0.45 |

### Ingredients

Green meal, lucerne meal, apple pomace, straw meal, oat husks, linseed products, vitamin and mineral premix incl. bicarbonate, cellulose, molasses, sunflower extraction meal, potato protein, corn (NGMO)

### Remarks

- ◇ Given values are calculated averages in air-dry feed.
- ◇ Energy values calculated according to Kamphues et al. 2014. GE=gross energy, ME=metabolisable energy
- ◇ ME Ruminant calculated according to the Hohenheim Gas Test
- ◇ Trace elements: calculated total content. Vitamin declaration: vitamins added before production. Estimated total vitamin content for ration calculations on request.
- ◇ Nutrients are subject to natural variation of the raw materials and their production process.

## OUR FEED RECOMMENDATION

- ◇ The feed is suitable for supplementing a diet based on roughage (depending on the species grass hay, lucerne, browse, etc.)
- ◇ Feed several smaller portions distributed over the day to avoid oesophageal obstruction
- ◇ Always provide free access to fresh drinking water.
- ◇ Benchmark: 0.5-1.5% of body weight per day in addition to hay ad libitum throughout the day.
- ◇ Maximum 50% of the dry matter from the total ration
- ◇ Not suitable for deer due to the low copper content.

**We are happy to work with you to create individual feeding recommendations for the respective species**

#### Sources:

Kamphues et al. 2014, Supplemente zu Vorlesungen und Übungen in der Tierernährung, 12. Auflage, M.&H. Schaper, Hannover, pp 20-26  
Van Saun, R.J. Copper Nutrition in camelids, part 1  
Van Saun, R. J. Copper Nutrition in Camelids part. 1 Lamalink.com, May 2008, 3 (16): 37-40