



## HERBIVORES



# Rhino/Tapir

(Browser low protein  
Fe-controlled)

Feed number: 3695

Suitable for: Browsers, particularly the iron-sensitive species like black Rhino and Tapir

### YOUR BENEFITS

- ◇ Lower protein content and therefore suitable for supplementing browser rations with protein-rich Lucerne hay or when a lower protein content is generally desired
- ◇ A recipe low in iron with naturally low-iron raw materials and manufactured without additional iron supplementation for black rhinos and tapirs, also suitable for rhinos with intermediate type feeding habits
- ◇ High content of easily fermentable fiber due to beet pulp grape and apple pomace
- ◇ High content of vitamin E
- ◇ Without any soybean and palmoil products
- ◇ Contains organic sources of trace elements
- ◇ Biotin supplemented
- ◇ Without mineral iron, the iron content is analysed for each batch
- ◇ Little cereales for a low content of starch
- ◇ 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



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

### TYPE OF FEED, FORM, DELIVERY QUANTITY

- ◇ Supplementary feed
- ◇ Form: pellet 8 mm round
- ◇ Delivery quantity: 25 kg paper bag  
pallets of 750 kg
- ◇ Product number: 3695.PD.S25
- ◇ Storage: dry (<75% humidity), dark (no direct sunlight) and cool (10-25°C). Temperature fluctuations of > 10°C should be avoided. Always remove plastic film around pallets immediately after delivery

# Rhino and tapir

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### FEED SPECIFICATIONS

#### Major nutrients (%)

Dry matter	90
Crude protein	13.5
Crude fat	4
Crude fiber	21
Crude ash	9
Acid-insoluble ash (AIA)	0.6
NFE	42.5
NDF	35
ADF	22
Starch	6
Sugar	6

#### Energy (MJ/kg)

GE	16.5
ME Horse	7.7
ME Ruminant	9.2

#### Macrominerals (%)

Calcium	1.2
Phosphorus	0.7
Magnesium	0.3
Sodium	0.6
Potassium	1.5
Chlorine	0.7

#### Trace elements (mg/kg)

Iron	300
Zinc	178
Copper	35
Iodine	1.7
Manganese	85
Selenium	0.6
Cobalt	0.3

#### Vitamins (added, mg/kg)

Vitamin A (IU/KG)	11'700
Vitamin D3 (IU/KG)	2'180
Vitamin E	1'300
Vitamin K3	1.2
Vitamin B1	4
Vitamin B2	7
Vitamin B6	6
Vitamin B12	0.04
Nicotinic acid	60
Pantothenic acid	40
Folic acid	4
Biotin	6
Choline	0
Vitamin C	50

#### Amino acids (%)

Arginine	0.67
Lysine	0.54
Methionine	0.20
Methionine + Cystine	0.39
Tryptophan	0.15
Threonine	0.46

#### Ingredients

Grape pomace, alfalfa, sunflower extraction meal, oat bran, apple pomace, wheat bran, beet pulp, molasses, linseed products, minerals, corn (NGMO) trace element and vitamin premixes, dextrose

#### 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 ration based on roughage (grasshay, lucerne, straw, leaves etc.)
- ◇ Always provide free access to fresh drinking water.
- ◇ Benchmark: 0.4% - 0.8% of body weight per day for rhinos and 0.5-1.5% of the body weight for tapirs

**It is recommended to use the pellet in an enriched feeding management that maximizes the animals' feeding time**

#### Sources:

Clauss, M. et al. (2005). A contribution to the trace element nutrition of captive black rhinoceroses (*Diceros bicornis*). Nutrition Advisory Groups Proceedings. Castell, J. (2005). Dissertation. Untersuchungen zu Fütterung und Verdauungsphysiologie am Spitzmaulnashorn (*Diceros bicornis*). Institut für Physiologie, Physiologische Chemie und Tierernährung der Tierärztlichen Fakultät der Ludwig-Maximilians-Universität München (Institute for Physiology, Physiological Chemistry and Animal Nutrition at the Veterinary Faculty of the Ludwig-Maximilians-University of Munich). Kamphues, J. et al. (2014). Supplemente zu Vorlesungen und Übungen in der Tierernährung, 12. Auflage, M.&H. Schaper, Hannover, pp 20-26 Litzénich, B. A., Ward, A. M. (September 1997). Hay and Pellet Rations: Considerations in Feeding Ungulates. Nutrition Advisory Group Handbook, Fact Sheet 006.