



## OTHER ANIMAL SPECIES



# Cricket Gut Loader

Feed number: 2987

Suitable for: Crickets and other feeder insects

## YOUR BENEFITS

- ◇ Complementary food for domestic crickets, field crickets and other feeder insects
- ◇ Offer dry or stir into a cake with water
- ◇ High content of calcium (11%)
- ◇ Contains omega-3 fatty acids (2.2%) from fishmeal, fish oil and linseed products
- ◇ Supplemented with all important vitamins, trace elements and a high content of beta carotenoids (65mg/kg)
- ◇ The feed replaces the maintenance/breeding feed during the last 48h before feeding
- ◇ By filling the gastrointestinal tract with this food, the calcium content of the feed cricket increases significantly (own study, p-value 0.004)
- ◇ Instead of an inverse Ca:P ratio, as is characteristic for almost all insects, a ratio of up to 1:1 can be achieved in crickets (according to own study)
- ◇ By additionally powdering the feed insects before feeding, additional calcium and vitamins can be supplied.



Colours may be different from the product

## TYPE OF FEED, FORM, DELIVERY QUANTITY

- ◇ Complementary feed
- ◇ Form: meal
- ◇ Delivery quantity: 1 kg plasticbox
- ◇ Product number: 2987.MA.BU1
- ◇ Storage: dry (<75% humidity), dark (no direct sunlight) and cool (10-25°C) or ideally in the fridge (2-8°C).



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## FEED SPECIFICATIONS

### Major nutrients (%)

Dry matter	93
Crude protein	17
Crude fat	8.5
Crude fiber	8
Crude ash	34
NFE	25.5
NDF	17
ADF	9
Starch	8
Sugar	2

### Energy (MJ/kg)

GE	15.6
ME	12.9

### Macrominerals (%)

Calcium	11
Phosphorus	1.0
Magnesium	0.3
Sodium	0.2
Potassium	0.9
Chlorine	0.5

### Trace elements (mg/kg)

Iron	550
Zinc	55
Copper	12
Iodine	1
Manganese	60
Selenium	0.4
Cobalt	0.4

### Vitamins (added, mg/kg)

Vitamin A (IU/KG)	250'000
Vitamin D3 (IU/KG)	25'000
Vitamin E	900
Vitamin K3	90
Vitamin B1	80
Vitamin B2	33
Vitamin B6	30
Vitamin B12	0.14
Nicotinic acid	112
Pantothenic acid	92
Folic acid	19
Biotin	0.7
Choline	1700
Vitamin C	4000

### Amino acids (%)

Arginine	1.0
Lysine	0.9
Methionine	0.3
Methionine + Cystine	0.4
Tryptophan	0.2
Threonine	0.6

### Ingredients

Minerals, alfalfa meal, wheat bran, linseed products, gelatine, fish meal, fish oil, vitamin and trace element premix, brewer's yeast, corn (NGMO) herbal extracts, beta-carotenoids, potassium sorbate.

### 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 calculated according to modified Atwater factors (3.5/8.5/3.5).
- ◇ 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 meal should be made freely available to the feeder insects in the last 48 hours before feeding. For feeding in moist form: Mix the powder 1:1 or as desired with water (~40°C), press into a suitable mould, allow to set and cut into pieces
- ◇ No other feed sources should be offered at the same time, water, on the other hand, should be accessible to the feeder insects
- ◇ For additional supplementation, the feeder insects can be dusted with this flour before being fed
- ◇ The feed should be mixed well before each use because of possible segregation and should ideally be stored in the refrigerator (2-12°C) after delivery.

#### Sources:

Kamphues et al. (eds), Supplemente zur Tierernährung für Studium und Praxis, 12. Auflage, 2014. M&H. Schaper, Hannover, pp 20-26, pp 20-26  
Bernard J. B. et al. (1997) – Feeding captive insectivorous animals: Nutritional aspects of insects as foods, Nutrition Advisory Group Handbook, Factsheet 003  
Finke M.D. (2015) Complete Nutrient Content of Four Species of Commercially Available Feeder Insects Fed Enhanced Diets During Growth; Zoo Biology 34: 554–564  
Brooks M, Harris G. 2017. Gut-Loading Diet Evaluation for Crickets (*Acheta domestica*), Mealworms (*Tenebrio molitor*), and Superworms (*Zophobas morio*) for the Purposes of Optimizing Institutional Protocols. In Ward A, Coslik A, Brooks M Eds. Proceedings of the Twelfth Conference on Zoo and Wildlife Nutrition, Zoo and Wildlife Nutrition Foundation and AZA Nutrition Advisory Group, Frisco, TX.