

Mazuri® Better Bug® Gut Loading Diet

(Available at www.mazuri.com or through a Mazuri® retailer)

Formula Code - 5B45



Description

Mazuri® Better Bug® Gut Loading Diet is formulated to contain a high level of calcium, omega-3 fatty acids, and vitamin A precursors for crickets and other feeder insects, which are intended to be used in the diets of other animals. This diet is to be fed to insects in order to increase levels of these nutrients in the gut-fill; this helps balance the calcium to phosphorus ratio of the crickets and other feeder insects when animals consume them. This diet is not intended for use in breeding or raising insects.

Features and Benefits

- **Contains high level of calcium** - Helps balance calcium to phosphorus ratio.
- **Contains sources of omega-3 fatty acids** - To help enrich diets of insect-eating animals.
- **May improve vitamin A status of the animals consuming feeder insects gut-loaded with Mazuri® Better Bug® Gut Loading Diet.***
- **Palatable** - Readily eaten by crickets.

Product Form

Meal.

- 8 oz. resealable poly bag
- 1 kg canister
- 25 lb in plastic bag

Catalog

1815514-945
1815514-717
1815514-109



Guaranteed Analysis

Crude protein, min.....	30.0%	Calcium, max.....	9.0%
Crude fat, min.....	15.0%	Phosphorus, min	0.60%
Crude fiber, max.....	9.0%	Sodium, max	0.60%
Moisture, max.....	12.0%	Vitamin A, min	15,000 IU/kg
Ash, max	20.0%	Omega 3 fatty acids, min.....	4.0%
Calcium, min	8.0%	Carotene, min	100 ppm

Ingredients

Calcium Carbonate, Fish Meal, Ground Corn, Dehulled Soybean Meal, Fish Oil preserved with tocopherols, Spirulina, Chicken Meal, Corn Gluten Meal, Porcine Meat and Bone Meal, Salt, Brewers Dried Yeast, Pyridoxine Hydrochloride, Biotin, Choline Chloride, Magnesium Oxide, Preserved with Mixed Tocopherols, L-Ascorbyl-2-Polyphosphate (Vitamin C), Rosemary Extract, Calcium Pantothenate, D-Alpha Tocopheryl Acetate, Citric Acid, Folic Acid, Riboflavin Supplement, Vitamin A Acetate, Thiamine Mononitrate, Nicotinic Acid, Vitamin B₁₂ Supplement, Zinc Oxide, Menadione Sodium Bisulfite Complex (source of Vitamin K), Cholecalciferol (Vitamin D3), DL-Methionine, Manganous Oxide, Ferrous Carbonate, Copper Sulfate, Zinc Sulfate, Calcium Iodate, Cobalt Carbonate, Sodium Selenite.

Feeding Directions

Feed to crickets or other feeder insects for 24-72 hours before offering to your reptile. No additional supplementation of insects is needed. The use of Better Bug® Gut Loading Diet will enhance the total body nutrients of the feeder insect, resulting in optimized nutrition being delivered to your reptile. Fresh water should be available to insects at all times.

*Research findings:

- Odum, R.A., Bekker, K., Turski, P., Chastain, J., Paramuk, J., Pessier, A.P., Berlinski, R., Hanley, C., Hornyak, V., Herman, T., Mendelson, J.R. - Hypovitaminosis A: Are captive-bred insect prey deficient in usable vitamin A for *Anaxyrus* (Anura-Bufo) <http://popfrog.org/Documents/VitaminAstudyabstract%20final.pdf>
 - Gut loading diets of produce or fortified with fish oil and spirulina, as in Mazuri® Better Bug® Gut Loading Diet, fed to crickets produced significantly higher levels of vitamin A in the livers of the studied toads, while the control animals fed crickets gut-loaded with the commonly used high calcium diet had minimal, and in some case undetectable, levels of vitamin A.
 - The cricket colonies maintained on the Produce diet had a tendency to become infested with fruit flies and required additional cleaning and maintenance.

Mazuri® Better Bug® Gut Loading Diet

Approximate Nutrient Composition¹

NUTRIENTS

Protein, %	31
Arginine, %	1.9
Cystine, %	0.45
Histidine, %	0.68
Isoleucine, %	1.3
Leucine, %	2.7
Lysine, %	1.7
Methionine, %	0.66
Phenylalanine, %	1.4
Threonine, %	1.2
Tryptophan, %	0.32
Tyrosine, %	1.1
Valine, %	1.5
Fat (Ether extract), %	16.4
Linoleic acid, %	0.87
Omega-3 Fatty Acids, %	5.3
Omega-6 Fatty Acids, %	1.4
Fiber (Crude), %	1.9
Neutral Detergent Fiber, %	5.0
Acid Detergent Fiber, %	2.0

MACRO MINERALS

Calcium, %	9.0
Phosphorus, %	0.91
Phosphorus (non-phytate), %	0.72
Potassium, %	0.67
Magnesium, %	0.22
Sodium, %	0.38
Chloride, %	0.42

TRACE MINERALS

Copper, ppm	12
Iodine, ppm	1.0
Iron, ppm	580
Manganese, ppm	129
Selenium (added), ppm	0.09
Zinc, ppm	116

VITAMINS

Biotin, ppm	0.67
Choline chloride, ppm	1,315
Folic acid, ppm	5.6
Niacin, ppm	189
Pantothenic acid, ppm	61
Pyridoxine, ppm	16
Riboflavin, ppm	37
Thiamin, ppm	23
Vitamin B ₁₂ , µg/kg	76
Vitamin A (added), IU/kg	12,750
Vitamin D ₃ , IU/kg	2,432
Vitamin E, IU/kg	204
Vitamin K (as menadione), ppm	0.58
Beta-carotene, ppm	120

Storage Conditions

For best results, after removal of desired dosage ensure polybag seal is fully closed, tightly affix lid on canister or store contents of open bag in container with sealing lid. Store in a cool (75°F or colder), dry (approximately 50% RH) location. Adhere to the "Best if used by" date or use within 1 year of printed lot code.

¹Based on the latest ingredient analysis information. Since nutrient composition of ingredients varies, analyses will vary accordingly.

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