PMI® Micro-Stabilized Rabbit Liquid Diet LD 304*

Technical Data

DESCRIPTION

This Rabbit Liquid Diet is nutritionally balanced with excellent palatability. Its purpose is to provide the daily dietary nutrients for animals and can be used to provide dietary test substances where solid diets are not appropriate. Stabilized against microbial growth for 10 days.

Features and Benefits

- Nutritionally-balanced
- Volatile ingredients can be included
- Easily prepared
- Provides stable nutrients
- Shipped in dry form to simplify storage, shipping and stability
- Minimal foaming
- Fully suspended
- Stabilized against microbial growth

Product Forms Available	***Catalog #***
• Dry Powder	23882 (534L)

GUARANTEED ANALYSIS

Crude protein not less than	20.0%
Crude fat not less than	6.0%
Crude fiber not more than	10.0%
Ash not more than	5.0%

* Composition of diet after it has been prepared according to diet preparation instructions.

* **Diet Preparation Instructions:** To 717 gms. of water, add 283 gms. Micro-Stabilized Rabbit Liquid Diet mix (LD 304). Blend vigorously for 15-30 seconds with a mechanical blender until completely suspended. For best results add water to blender before dry mix. See information provided to prepare isocaloric diets with alcohol or other test substances.

Additional Considerations:

- For best results a mechanical blender should be used for diet preparation; hand blending does not suspend the diet adequately to avoid some settling out of undissolved ingredients.
- Do not over-blend; excessive mechanical blending creates foaming.

INGREDIENTS

Isolated soy protein, maltodextrin, dried corn syrup, alfalfa meal, lactose, olive oil, soy fiber, sucrose, corn oil, suspension colloid, safflower oil, L-cystine, DL-methionine, natural flavors, vitamin A acetate, cholecalciferol, dl-alpha tocopheryl acetate, menadione sodium bisulfite (source of vitamin K), ascorbic acid, cyanocobalamin, citric acid, thiamin mononitrate, riboflavin, calcium pantothenate, nicotinic acid, choline bitartrate, pyridoxine hydrochloride, folic acid, inositol, p-aminobenzoic acid, propionic acid, biotin, calcium acetate, fumaric acid, potassium phosphate, potassium sorbate, magnesium sulfate, sodium chloride, manganese sulfate, ferrous fumarate, zinc chloride, cupric sulfate, chromium chloride, sodium fluoride, ammonium molybdate, calcium iodate, sodium selenite.

FEEDING DIRECTIONS

About 350-360 gms of the diet (varies with animal size) needs to be consumed per animal per day to sustain a normal daily weight gain. The growth rate needs to be similar to that attained by young rabbits when maintained on good quality, non-purified rabbit diets. Prepare as needed (daily if necessary) and always refrigerate to minimize any loss of nutrients after preparation. We advise preparation of fresh diet (if not daily) every 4 days even though bacterial growth is not occurring. Always make certain that good suspension is maintained in the prepared diet. Additional water may be provided from separate drinking tubes, but may not be consumed. Animals need to adjust to their surroundings and conditions. After this period, provide some of this liquid diet to the animal while its regular feed is present. Over a 5-10 day period gradually reduce the regular feed until it is no longer needed. This adjustment period is critical to allow the intestinal/cecal microflora to adjust and thus avoid potential imbalances to develop where unhealthy animals could result. An animal that does not seem to adjust properly should be removed from the treatment.

CHEMICAL COMPOSITION[1]

Nutrients[2]	Reconstituted[2]	Dry Powder
Protein, %	**6.13**	**21.8**
Arginine, %	0.41	1.46
Cystine, %	0.10	0.36
Glycine, %	0.25	0.89
Histidine, %	0.15	0.52
Isoleucine, %	0.30	1.05
Leucine, %	0.47	1.65
Lysine, %	0.35	1.22
Methionine, %	0.12	0.42
Phenylalanine, %	0.30	1.06
Tyrosine, %	0.21	0.74
Threonine, %	0.22	0.78
Tryptophan, %	0.07	0.25
Valine, %	0.31	1.09
Fat (ether extract),%	**2.03**	**7.2**
Fiber (Crude), %	**1.25**	**4.4**
Minerals		
Calcium, %	0.21	0.73
Phosphorus, %	0.13	0.46
Potassium, %	0.21	0.75
Magnesium, %	0.04	0.15
Sulfur, %	0.10	0.34
Sodium, %	0.10	0.35
Chlorine, %	0.09	0.32
Fluorine, ppm	0.34	1.2
Iron, ppm	46	160
Zinc, ppm	11	38
Manganese, ppm	16	57
Copper, ppm	3.7	13
Chromium, ppm	0.66	2.35
Iodine, ppm	0.06	0.23
Molybdenum, ppm	0.14	0.5
Selenium, ppm	0.03	0.11
Vitamins		
Vitamin K (as menadione),ppm	0.72	2.6
Thiamin, ppm	1.7	6.1
Riboflavin, ppm	2.0	7.1
Niacin, ppm	9.3	33
Pantothenic Acid, ppm	4.4	16
Choline Chloride, ppm	390	1380
Folic Acid, ppm	0.65	2.3
Pyridoxine, ppm	1.6	5.5
Biotin, ppm	0.07	0.24
Inositol, ppm	25	109
p-aminobenzoic acid, ppm	12.5	54
B_{12}, mcg/kg	25	88
Vitamin A, IU/gm	3.0	11
Vitamin D_3 (added), IU/gm	0.40	1.4
Vitamin E, IU/kg	33	120
Ascorbic Acid, mg/gm	11	39
Energy*		
Protein, kcal/kg		261
Fat, Kcal/kg		183
Carbohydrates, kcal/kg		556

*Energy Levels used (kcal/gm) Protein = 4.25; Fat = 9.00; Maltodextrin = 4.00; Ethanol = 7.07. The protein value is different than the 4 kcal/gm for protein, as generally used.

* 1 kilogram of diet in liquid form, when prepared according to directions, provides 1000 kilocalories (1 kcal per gram).

* Lieber, CS & LM DeCarli (1982) Alcoholism: Clinical and Experimental Research 6: 523-531. Miller, SS, ME Goldman, CK Erickson & RL Shorey (1980) Psychopharmacology 68: 55-59.

*Product Code

1. Based on the latest ingredient analysis information.
2. Values are based upon the liquid form of the diet when prepared according to directions (283 gm dry powder with 717 gm water).