



# Specialty Feeds

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## DIET

### HIGH ENERGY GUINEA PIG (GPHK3)

A Guinea Pig diet specifically designed for breeding colonies where fresh supplementary feeds are not used.

- Ÿ Energy has been increased by around 10% over the standard diet. Protein has been increased slightly, fibre reduced, lipid energy increased and carbohydrate energy maintained. Lipid source has been broadened to maximize range of fatty acids and maximize polar lipids (important precursors for prostaglandin biosynthesis). These modifications were made after it was found that breeding guinea pigs fed the standard GPR diet without fresh food supplementation had a higher incidence of late pregnancy toxemia. This problem was not found in any breeding facilities where the standard GPR diet was fed along with a range of fresh fruit or vegetables.
- Ÿ For animal breeding facilities with relatively small, open Guinea Pig breeding colonies we would recommend a mixed feeding regime of GPR and fresh fruit / vegetables.
- Ÿ The formulation includes a form of vitamin C with good stability, however it is known that considerable vitamin C degradation occurs on autoclaving the diet at 120<sup>o</sup> C. Whilst we have had no reports of symptoms of vitamin C deficiency in colonies fed this diet exclusively, we would recommend that the water of all Guinea Pigs be supplemented with Vitamin C.
- Ÿ Feed is manufactured as a cylindrical pellet 4 mm diameter and 4 - 10 mm long.
- Ÿ The diet is packed in bags suitable for direct loading into an autoclave.
- Ÿ If the diet is to be autoclaved, the recommended conditions are: Autoclave at 120<sup>o</sup> C for 20 minutes with a post autoclaving vacuum drying cycle. Some clumping of the diet can be expected, but the diet clumps can usually be easily broken. Modifying the drying time to leave some residual moisture in the diet can minimize the clumping. Do not autoclave at 135<sup>o</sup> C as this will result in significant clumping that will be difficult to break.

### Calculated Nutritional parameters

Protein	19.8 %
Total Fat	7.6 %
Crude Fibre	9.4 %
Neutral Detergent Fibre	21.9 %
Acid Detergent Fibre	12.4 %
Digestible Energy	13.9 MJ / Kg
Calcium	1.2 %
Phosphorous	0.7 %

### Ingredients

A fixed formula ration using the following ingredients.  
Wheat, Lupins, Meat Meal, Canola meal, Lucerne, Salt, Vegetable Oil, Fish Oil, Molasses, Lysine, Methionine, Vitamin C (in protected form) and added vitamin and mineral premix.

### Added Trace Minerals

Magnesium	150 mg / Kg
Iron	30 mg / Kg
Copper	10 mg / Kg
Iodine	1.2 mg / Kg
Manganese	67 mg / Kg
Cobalt	0.5 mg / Kg
Zinc	50 mg / Kg
Selenium	0.1 mg / Kg

### FEEDING RECOMMENDATIONS

Feed ad-lib to animals of all ages

### DIET FORM

Manufactured as a 4 mm diameter pellet. Product packed in autoclavable bags sufficiently large to enable full steam penetration in pulse vacuum operation autoclave. Store in a cool, dry area away from direct sunlight.

### Added Vitamins

Vitamin A (Retinol)	20,000 IU / Kg
Vitamin D3 (Cholecalciferol)	1,000 IU/Kg
Vitamin K (Menadione)	1 mg / Kg
Vitamin C (Ascorbic acid as Rovimix Stay-C, phosphate esters)	660 mg / Kg
Vitamin E (αTocopherol acetate)	20 mg / Kg
Vitamin B1 (Thiamine)	2 mg / Kg
Vitamin B2 (Riboflavin)	2.5 mg / Kg
Niacin (Nicotinic acid)	15 mg / Kg
Vitamin B6 (Pyridoxine)	2 mg / Kg
Calcium Pantothenate	20 mg / Kg
Biotin	200 ug / Kg
Folic acid	3 mg / Kg
Vitamin B12 (Cyanocobalamin)	10 ug / Kg
Choline	900 mg / Kg

Calculated Amino Acids	
Valine	0.8 %
Leucine	1.3 %
Isoleucine	0.7 %
Threonine	0.6 %
Methionine	0.3 %
Cystine	0.2 %
Lysine	1.0 %
Phenylalanine	0.8 %
Tyrosine	0.7 %
Tryptophan	0.2 %

Calculated Total Minerals	
Calcium	1.2 %
Phosphorous	0.7 %
Magnesium	0.2 %
Sodium	0.1 %
Potassium	0.8 %
Sulphur	0.2 %
Iron	440 mg / Kg
Copper	16 mg / Kg
Iodine	1 mg / Kg
Manganese	100 mg / Kg
Cobalt	315 mg / Kg
Zinc	80 mg / Kg
Molybdenum	1.5 mg / Kg
Selenium	0.3 mg / Kg
Cadmium	0.04 mg / Kg
Chromium	no data

Calculated total Vitamins	
Vitamin A (Retinol)	40,000 IU / Kg
Vitamin D3 (Cholecalciferol)	> 1,000 IU / Kg
Vitamin E (Tocopherol)	37 mg / Kg
Vitamin K (Menadione)	5 mg / Kg
Vitamin C (Ascorbic acid)	665 mg / Kg
Vitamin B1 (Thiamine)	4.4 mg / Kg
Vitamin B2 (Riboflavin)	4.6 mg / Kg
Niacin (Nicotinic acid)	50 mg / Kg
Vitamin B6 (Pyridoxine)	4 mg / Kg
Pantothenic acid	30 mg / Kg
Biotin	300 ug / Kg
Folic acid	3.4 mg / Kg
Inositol	no data
Vitamin B12 (Cyanocobalamin)	10 mg / Kg
Choline	2900 mg / Kg

Calculated Fat Composition	
Myristic Acid 14:0	0.07 %
Palmitic Acid 16:0	0.8 %
Stearic Acid 18:0	0.3 %
Palmitoleic Acid 16:1	0.09 %
Oleic Acid 18:1	3.3 %
Gadoleic Acid 20:1	0.07 %
Linoleic Acid 18:2 n6	1.7 %
a Linolenic Acid 18:3 n3	0.5 %
Arachadonic Acid 20:4 n6	0.02 %
EPA 20:5 n3	0.08 %
DHA 22:6 n3	0.1 %
Total Carotenoid	no data
Total Phospholipid	0.03 %
Cholesterol	trace

Note: Calculated data uses information from typical raw material composition. It could be expected that individual batches of diet will vary from this figure.

We are happy to provide full calculated nutritional information for all of our products, however we would like to emphasize that these diets have been specifically designed for manufacture by Specialty Feeds.

**THIS FEEDSTUFF CONTAINS RESTRICTED ANIMAL MATERIAL- DO NOT FEED TO CATTLE, SHEEP, GOATS, DEER, OR ANY OTHER RUMINANTS.**