

Poultry Breeder (HPB)

Pelleted

SUITABLE SPECIES AND APPLICATIONS

Adult poultry for breeding, laying and maintenance.

BENEFITS

- Fixed formulation poultry diet free of non-nutrient additives.

FEEDING GUIDE

Ad-lib feeding is recommended.

AVAILABLE AS

Diet	Form	Product Code
<i>Standard</i> HPB (P)	<i>3mm Pelleted</i>	<i>802116</i>

- All diets are available irradiated and are available in a range of packaging.
- All Standard diets are available with full analysis on request.

INGREDIENTS

Wheat, Barley, Wheatfeed, De-hulled Extracted Toasted Soya, Macro Minerals, Soya Oil, Vitamins, Micro Minerals.



Calculated Analysis

NUTRIENTS

Proximate Analysis		Total	Supp (9)
Moisture (1)	%	10.00	
Crude Oil	%	3.07	
Crude Protein	%	15.22	
Crude Fibre	%	4.26	
Ash	%	12.51	
Nitrogen Free Extract	%	53.84	

Digestibility Co-Efficients (7)

Digestible Crude Oil	%	2.78	
Digestible Crude Protein	%	13.73	

Carbohydrates, Fibre and Non Starch Polysaccharides (NSP)

Total Dietary Fibre	%	14.74	
Pectin	%	1.36	
Hemicellulose	%	8.55	
Cellulose	%	3.94	
Lignin	%	1.37	
Starch	%	39.54	
Sugar	%	3.59	

Energy (5)

Gross Energy	MJ/kg	13.77	
Digestible Energy	MJ/kg		
Metabolisable Energy (13)	MJ/kg	10.48	
Atwater Fuel Energy (AFE) (8)	MJ/kg	12.70	
AFE from Oil	%	9.09	
AFE from Protein	%	20.03	
AFE from Carbohydrate	%	70.87	

Fatty Acids

Saturated Fatty Acids			
C12:0 Lauric	%	0.03	
C14:0 Myristic	%	0.13	
C16:0 Palmitic	%	0.29	
C18:0 Stearic	%	0.06	

Monounsaturated Fatty Acids			
C14:1 Myristoleic	%	0.02	
C16:1 Palmitoleic	%	0.10	
C18:1 Oleic	%	0.77	

Polyunsaturated Fatty Acids			
C18:2(ω6) Linoleic	%	0.90	
C18:3(ω3) Linolenic	%	0.11	
C20:4(ω6) Arachidonic	%	0.10	
C22:5(ω3) Clupanodonic	%		

Amino Acids

Arginine	%	1.06	
Lysine (6)	%	0.72	
Methionine	%	0.47	0.27
Cystine	%	0.24	
Tryptophan	%	0.19	
Histidine	%	0.40	
Threonine	%	0.56	
Isoleucine	%	0.62	
Leucine	%	1.12	
Phenylalanine	%	0.74	
Valine	%	0.74	
Tyrosine	%	0.55	
Taurine	%		
Glycine	%	1.41	
Aspartic Acid	%	0.79	

NUTRIENTS

		Total	Supp (9)
Glutamic Acid	%	3.03	
Proline	%	1.11	
Serine	%	0.61	
Hydroxyproline	%		
Hydroxylysine	%		
Alanine	%	0.12	

Macro Minerals

Calcium	%	3.42	3.27
Total Phosphorus	%	0.61	0.18
Phytate Phosphorus	%	0.23	
Available Phosphorus	%	0.39	0.18
Sodium	%	0.16	0.11
Chloride	%	0.20	0.15
Potassium	%	0.68	
Magnesium	%	0.20	

Micro Minerals

Iron	mg/kg	97.72	28.12
Copper	mg/kg	29.09	20.00
Manganese	mg/kg	145.15	99.82
Zinc	mg/kg	112.16	79.99
Cobalt	µg/kg	567.78	500.00
Iodine	µg/kg	1082.05	992.00
Selenium	µg/kg	365.27	200.00
Fluorine	mg/kg	9.97	

Vitamins

β-Carotene (2)	mg/kg	0.13	
Retinol (2)	µg/kg	4650.59	4500.00
Vitamin A (2)	iu/kg	15501.53	15000.00
Cholecalciferol (3)	µg/kg	127.34	125.00
Vitamin D (3)	iu/kg	5093.47	5000.00
α-Tocopherol (4)	mg/kg	85.58	68.18
Vitamin E (4)	iu/kg	94.14	75.00
Vitamin B ₁ (Thiamine)	mg/kg	8.45	2.94
Vitamin B ₂ (Riboflavin)	mg/kg	13.77	12.25
Vitamin B ₆ (Pyridoxine)	mg/kg	7.38	3.92
Vitamin B ₁₂ (Cyanocobalamin)	µg/kg	21.73	20.00
Vitamin C (Ascorbic Acid)	mg/kg	2.55	
Vitamin K (Menadione)	mg/kg	0.40	
Folic Acid (Vitamin B ₉)	mg/kg	3.75	2.45
Nicotinic Acid (Vitamin PP) (6)	mg/kg	110.30	58.02
Pantothenic Acid (Vitamin B _{3/5})	mg/kg	26.36	13.32
Choline (Vitamin B _{4/7})	mg/kg	1226.81	343.10
Inositol	mg/kg	2143.94	
Biotin (Vitamin H) (6)	µg/kg	506.94	250.00

Notes

- All values are calculated using a moisture basis of 10%. Typical moisture levels will range between 9.5 - 11.5%.
- a. Vitamin A includes Retinol and the Retinol equivalents of β-carotene
b. Retinol includes the Retinol equivalents of β-Carotene.
c. 0.48 µg Retinol = 1 µg β-carotene = 1.6 iu Vitamin A activity
d. 1 µg Retinol = 3.33* iu Vitamin A activity
e. 1 iu Vitamin A = 0.3 µg Retinol = 0.6 µg β-carotene
f. The standard analysis for Vitamin A does not detect β-carotene
- 1 µg Cholecalciferol (D₃) = 40.0 iu Vitamin D
- 1 mg all-*rac*-α-tocopherol = 1.1 iu Vitamin E activity
1 mg all-*rac*-α-tocopherol acetate = 1.0 iu Vitamin E activity
- 1 MJ = 239.23 Kcalories = 239.23 Calories = 239,230 calories
- These nutrients coming from natural raw materials such as cereals may have low availabilities due to the interactions with other compounds.
- Based on in-vitro digestibility analysis.
- AF Energy = Atwater Fuel Energy = ((CO%/100)*9000)+((CP%/100)*4000)+((NFE%/100)*4000)/239.23
- Supplemented nutrients from manufactured and mined sources.
- ME Poultry (FSR 2000) = (0.1551*CP%)+(0.3431*CO%)+(0.1669*Starch%)+(0.1301*Sugar%(expressed as sucrose)).