

Poultry Starter (HPS)

Pelleted

SUITABLE SPECIES AND APPLICATIONS

Chicks from 0–2 weeks of age.

BENEFITS

- Available in mini pellet form.
- Formulated to give growth during early stages.
- Fixed formulation poultry diet free of non-nutrient additives.

FEEDING GUIDE

Ad-lib to chicks is recommended.

AVAILABLE AS

Diet	Form	Product Code
<i>Standard</i> HPS (P)	3mm Pelleted	802110

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

INGREDIENTS

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



Calculated Analysis

NUTRIENTS		Total	Supp (9)
Proximate Analysis			
Moisture (1)	%	10.00	
Crude Oil	%	2.70	
Crude Protein	%	18.85	
Crude Fibre	%	4.37	
Ash	%	6.82	
Nitrogen Free Extract	%	56.52	
Digestibility Co-Efficients (7)			
Digestible Crude Oil	%	2.46	
Digestible Crude Protein	%	17.23	
Carbohydrates, Fibre and Non Starch Polysaccharides (NSP)			
Total Dietary Fibre	%	14.18	
Pectin	%	1.42	
Hemicellulose	%	7.94	
Cellulose	%	3.96	
Lignin	%	1.11	
Starch	%	42.67	
Sugar	%	3.91	
Energy (5)			
Gross Energy	MJ/kg	14.85	
Digestible Energy	MJ/kg		
Metabolisable Energy (13)	MJ/kg	11.48	
Atwater Fuel Energy (AFE) (8)	MJ/kg	13.62	
AFE from Oil	%	7.46	
AFE from Protein	%	23.14	
AFE from Carbohydrate	%	69.40	
Fatty Acids			
Saturated Fatty Acids			
C12:0 Lauric	%	0.03	
C14:0 Myristic	%	0.09	
C16:0 Palmitic	%	0.22	
C18:0 Stearic	%	0.04	
Monounsaturated Fatty Acids			
C14:1 Myristoleic	%	0.03	
C16:1 Palmitleic	%	0.18	
C18:1 Oleic	%	0.67	
Polyunsaturated Fatty Acids			
C18:2(ω6) Linoleic	%	0.79	
C18:3(ω3) Linolenic	%	0.09	
C20:4(ω6) Arachidonic	%	0.07	
C22:5(ω3) Clupanodonic	%		
Amino Acids			
Arginine	%	1.38	
Lysine (6)	%	0.99	
Methionine	%	0.42	0.15
Cystine	%	0.30	
Tryptophan	%	0.24	
Histidine	%	0.52	
Threonine	%	0.74	
Isoleucine	%	0.83	
Leucine	%	1.55	
Phenylalanine	%	0.97	
Valine	%	0.94	
Tyrosine	%	0.73	
Taurine	%		
Glycine	%	2.02	
Aspartic Acid	%	1.07	

NUTRIENTS		Total	Supp (9)
Glutamic Acid	%	3.19	
Proline	%	1.16	
Serine	%	0.79	
Hydroxyproline	%	0.01	
Hydroxylysine	%		
Alanine	%	0.08	
Macro Minerals			
Calcium	%	1.06	0.92
Total Phosphorus	%	0.70	0.28
Phytate Phosphorus	%	0.23	
Available Phosphorus	%	0.48	0.28
Sodium	%	0.16	0.12
Chloride	%	0.17	0.11
Potassium	%	0.78	
Magnesium	%	0.19	
Micro Minerals			
Iron	mg/kg	79.28	9.75
Copper	mg/kg	13.84	5.00
Manganese	mg/kg	115.24	79.86
Zinc	mg/kg	90.06	60.00
Cobalt	µg/kg	312.58	250.00
Iodine	µg/kg	1097.06	992.00
Selenium	µg/kg	285.72	150.00
Fluorine	mg/kg	13.03	
Vitamins			
β-Carotene (2)	mg/kg	0.84	
Retinol (2)	µg/kg	3496.93	3000.00
Vitamin A (2)	iu/kg	11643.56	10000.00
Cholecalciferol (3)	µg/kg	76.96	75.00
Vitamin D (3)	iu/kg	3078.53	3000.00
α-Tocopherol (4)	mg/kg	23.33	7.27
Vitamin E (4)	iu/kg	25.67	8.00
Vitamin B ₁ (Thiamine)	mg/kg	5.55	0.98
Vitamin B ₂ (Riboflavin)	mg/kg	7.82	6.17
Vitamin B ₆ (Pyridoxine)	mg/kg	4.25	0.98
Vitamin B ₁₂ (Cyanocobalamin)	µg/kg	10.02	8.00
Vitamin C (Ascorbic Acid)	mg/kg	3.55	
Vitamin K (Menadione)	mg/kg	0.37	
Folic Acid (Vitamin B ₉)	mg/kg	2.76	0.98
Nicotinic Acid (Vitamin PP) (6)	mg/kg	65.05	19.31
Pantothenic Acid (Vitamin B _{3/5})	mg/kg	20.88	8.88
Choline (Vitamin B _{4/7})	mg/kg	1199.86	65.80
Inositol	mg/kg	2404.59	
Biotin (Vitamin H) (6)	µg/kg	285.84	50.00

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)).