

## **Poultry Grower (HPG)**

*Pelleted*

### **SUITABLE SPECIES AND APPLICATIONS**

Poultry 2–14 weeks of age.

### **BENEFITS**

- Formulated to ensure healthy growth without excessive weight gain.
- Fixed formulation poultry diet, free of non-nutrient additives.

### **FEEDING GUIDE**

Ad-lib feeding is recommended.

### **AVAILABLE AS**

<b>Diet</b>	<b>Form</b>	<b>Product Code</b>
<i>Standard</i> HPG (P)	<i>3mm Pelleted</i>	802104

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



## Calculated Analysis

NUTRIENTS		Total	Supp (9)
<b>Proximate Analysis</b>			
Moisture (1)	%	10.00	
Crude Oil	%	2.60	
Crude Protein	%	15.96	
Crude Fibre	%	4.46	
Ash	%	6.09	
Nitrogen Free Extract	%	60.70	
<b>Digestibility Co-Efficients (7)</b>			
Digestible Crude Oil	%	2.37	
Digestible Crude Protein	%	14.17	
<b>Carbohydrates, Fibre and Non Starch Polysaccharides (NSP)</b>			
Total Dietary Fibre	%	17.86	
Pectin	%	1.58	
Hemicellulose	%	11.06	
Cellulose	%	4.17	
Lignin	%	1.82	
Starch	%	42.97	
Sugar	%	3.96	
<b>Energy (5)</b>			
Gross Energy	MJ/kg	14.78	
Digestible Energy	MJ/kg		
Metabolisable Energy (13)	MJ/kg	11.05	
Atwater Fuel Energy (AFE) (8)	MJ/kg	13.80	
AFE from Oil	%	7.09	
AFE from Protein	%	19.34	
AFE from Carbohydrate	%	73.57	
<b>Fatty Acids</b>			
<b>Saturated Fatty Acids</b>			
C12:0 Lauric	%	0.02	
C14:0 Myristic	%	0.14	
C16:0 Palmitic	%	0.33	
C18:0 Stearic	%	0.03	
<b>Monounsaturated Fatty Acids</b>			
C14:1 Myristoleic	%	0.01	
C16:1 Palmitoleic	%	0.07	
C18:1 Oleic	%	0.81	
<b>Polyunsaturated Fatty Acids</b>			
C18:2(ω6) Linoleic	%	0.58	
C18:3(ω3) Linolenic	%	0.04	
C20:4(ω6) Arachidonic	%	0.14	
C22:5(ω3) Clupanodonic	%		
<b>Amino Acids</b>			
Arginine	%	1.07	
Lysine (6)	%	0.69	
Methionine	%	0.22	0.02
Cystine	%	0.24	
Tryptophan	%	0.19	
Histidine	%	0.42	
Threonine	%	0.57	
Isoleucine	%	0.62	
Leucine	%	1.21	
Phenylalanine	%	0.75	
Valine	%	0.76	
Tyrosine	%	0.57	
Taurine	%		
Glycine	%	1.20	
Aspartic Acid	%	0.76	

NUTRIENTS		Total	Supp (9)
Glutamic Acid	%	3.42	
Proline	%	1.22	
Serine	%	0.66	
Hydroxyproline	%	0.01	
Hydroxylysine	%		
Alanine	%	0.18	
<b>Macro Minerals</b>			
Calcium	%	0.89	0.78
Total Phosphorus	%	0.62	0.10
Phytate Phosphorus	%	0.26	
Available Phosphorus	%	0.35	0.10
Sodium	%	0.17	0.12
Chloride	%	0.22	0.19
Potassium	%	0.68	
Magnesium	%	0.25	
<b>Micro Minerals</b>			
Iron	mg/kg	76.28	9.75
Copper	mg/kg	15.86	5.00
Manganese	mg/kg	137.78	79.86
Zinc	mg/kg	103.79	60.00
Cobalt	µg/kg	329.78	250.00
Iodine	µg/kg	1096.32	992.00
Selenium	µg/kg	367.16	150.00
Fluorine	mg/kg	9.41	
<b>Vitamins</b>			
β-Carotene (2)	mg/kg	0.93	
Retinol (2)	µg/kg	3558.24	3000.00
Vitamin A (2)	iu/kg	11847.93	10000.00
Cholecalciferol (3)	µg/kg	77.37	75.00
Vitamin D (3)	iu/kg	3094.89	3000.00
α-Tocopherol (4)	mg/kg	28.63	7.27
Vitamin E (4)	iu/kg	31.49	8.00
Vitamin B <sub>1</sub> (Thiamine)	mg/kg	8.12	0.98
Vitamin B <sub>2</sub> (Riboflavin)	mg/kg	7.48	6.17
Vitamin B <sub>6</sub> (Pyridoxine)	mg/kg	4.74	0.98
Vitamin B <sub>12</sub> (Cyanocobalamin)	µg/kg	9.21	8.00
Vitamin C (Ascorbic Acid)	mg/kg	0.77	
Vitamin K (Menadione)	mg/kg	0.43	
Folic Acid (Vitamin B <sub>9</sub> )	mg/kg	2.20	0.98
Nicotinic Acid (Vitamin PP) (6)	mg/kg	76.34	19.31
Pantothenic Acid (Vitamin B <sub>3/5</sub> )	mg/kg	24.23	8.88
Choline (Vitamin B <sub>4/7</sub> )	mg/kg	849.22	65.80
Inositol	mg/kg	2240.08	
Biotin (Vitamin H) (6)	µg/kg	340.19	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 (D<sub>3</sub>) = 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)).