

Aquatic 3

Expanded

SUITABLE SPECIES AND APPLICATIONS

Amphibia, non-tropical fish, some reptiles and trout.

BENEFITS

- Contains high levels of stable Vitamin C which is known to be essential for normal growth of fish.
- Expanded pellets which allows the pellet to float for a short while before sinking, thus reducing wastage and contamination of the water.

FEEDING GUIDE

Aquatic diets should be fed ad-lib.

AVAILABLE AS

Diet	Form	Product Code
<i>Standard</i> AQ3 (E)	<i>4mm Expanded</i>	856300

- All Standard diets are available with full analysis on request.

INGREDIENTS

De-hulled Extracted Toasted Soya, Wheat, Maize Gluten Meal, Fish Meal, Poultry Meat Meal, Wheat Flour, Macro Minerals, Chicken Fat, Molasses, Hydrolysed Wheat Gluten, Potato Protein, Soya Full Fat Toasted, Amino Acids, Vitamins, Micro Minerals.



NUTRIENTS

Proximate Analysis		Total	Supp (9)
Moisture (1)	%	10.00	
Crude Oil	%	6.49	
Crude Protein	%	39.00	
Crude Fibre	%	2.38	
Ash	%	8.75	
Nitrogen Free Extract	%	33.16	

Digestibility Co-Efficients (7)

Digestible Crude Oil	%	5.94	
Digestible Crude Protein	%	35.75	

Carbohydrates, Fibre and Non Starch Polysaccharides (NSP)

Total Dietary Fibre	%	5.81	
Pectin	%	0.67	
Hemicellulose	%	2.86	
Cellulose	%	2.00	
Lignin	%	0.33	
Starch	%	24.61	
Sugar	%	4.08	

Energy (5)

Gross Energy	MJ/kg	16.82	
Digestible Energy (15)	MJ/kg	14.72	
Metabolisable Energy (15)	MJ/kg	13.50	
Atwater Fuel Energy (AFE) (8)	MJ/kg	14.51	
AFE from Oil	%	16.83	
AFE from Protein	%	44.95	
AFE from Carbohydrate	%	38.22	

Fatty Acids

Saturated Fatty Acids			
C12:0 Lauric	%	0.09	
C14:0 Myristic	%	0.17	
C16:0 Palmitic	%	1.31	
C18:0 Stearic	%	0.24	
Monounsaturated Fatty Acids			
C14:1 Myristoleic	%	0.01	
C16:1 Palmitleic	%	0.14	
C18:1 Oleic	%	2.32	
Polyunsaturated Fatty Acids			
C18:2(ω6) Linoleic	%	1.34	
C18:3(ω3) Linolenic	%	0.14	
C20:4(ω6) Arachidonic	%	0.20	
C22:5(ω3) Clupanodonic	%	0.06	

Amino Acids

Arginine	%	2.44	
Lysine (6)	%	2.23	0.11
Methionine	%	0.80	0.04
Cystine	%	0.58	
Tryptophan	%	0.38	
Histidine	%	0.95	
Threonine	%	1.55	
Isoleucine	%	1.79	
Leucine	%	3.70	
Phenylalanine	%	2.03	
Valine	%	1.91	
Tyrosine	%	1.47	
Taurine	%		
Glycine	%	3.35	
Aspartic Acid	%	2.75	

NUTRIENTS

		Total	Supp (9)
Glutamic Acid	%	6.67	
Proline	%	2.14	
Serine	%	1.61	
Hydroxyproline	%	0.21	
Hydroxylysine	%	0.05	
Alanine	%	1.24	

Macro Minerals

Calcium	%	2.23	0.95
Total Phosphorus	%	1.16	0.29
Phytate Phosphorus	%	0.18	
Available Phosphorus	%	0.97	0.29
Sodium	%	0.16	
Chloride	%	0.20	
Potassium	%	0.81	
Magnesium	%	0.14	0.01

Micro Minerals

Iron	mg/kg	174.64	31.61
Copper	mg/kg	18.22	6.26
Manganese	mg/kg	67.90	45.08
Zinc	mg/kg	82.24	52.03
Cobalt	µg/kg	459.18	399.15
Iodine	µg/kg	835.15	279.08
Selenium	µg/kg	234.57	0.17
Fluorine	mg/kg	6.33	

Vitamins

β-Carotene (2)	mg/kg	3.58	
Retinol (2)	µg/kg	6162.00	4500.19
Vitamin A (2)	iu/kg	20483.76	15000.62
Cholecalciferol (3)	µg/kg	96.56	60.00
Vitamin D (3)	iu/kg	3862.57	2400.00
α-Tocopherol (4)	mg/kg	152.75	140.95
Vitamin E (4)	iu/kg	168.03	155.05
Vitamin B ₁ (Thiamine)	mg/kg	12.02	9.81
Vitamin B ₂ (Riboflavin)	mg/kg	13.84	11.76
Vitamin B ₆ (Pyridoxine)	mg/kg	17.04	13.73
Vitamin B ₁₂ (Cyanocobalamine)	µg/kg	84.95	75.00
Vitamin C (Ascorbic Acid) (16)	mg/kg	52.33	52.33
Vitamin K (Menadione)	mg/kg	72.00	72.00
Folic Acid (Vitamin B ₉)	mg/kg	4.79	2.94
Nicotinic Acid (Vitamin PP) (6)	mg/kg	62.12	27.54
Pantothenic Acid (Vitamin B _{3/5})	mg/kg	21.48	11.63
Choline (Vitamin B _{4/7})	mg/kg	1290.43	0.21
Inositol	mg/kg	1117.03	6.30
Biotin (Vitamin H) (6)	µg/kg	429.82	230.42

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.
- Calculated.
- Supplemented Vit. C as Ascorbyl Polyphosphate.