

Aquatic 4

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> AQ4 (E)	<i>8mm Expanded</i>	856400

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

INGREDIENTS

Wheat, Fish Meal, De-hulled Extracted Toasted Soya, Poultry Meat Meal, Chicken Fat, Molasses, Macro Minerals, Amino Acids, Vitamins, Micro Minerals.



NUTRIENTS

		Total	Supp (9)
Proximate Analysis			
Moisture (1)	%	10.00	
Crude Oil	%	6.57	
Crude Protein	%	38.29	
Crude Fibre	%	2.32	
Ash	%	9.03	
Nitrogen Free Extract	%	33.65	

Digestibility Co-Efficients (7)

Digestible Crude Oil	%	5.99	
Digestible Crude Protein	%	35.09	

Carbohydrates, Fibre and Non Starch Polysaccharides (NSP)

Total Dietary Fibre	%	6.14	
Pectin	%	0.70	
Hemicellulose	%	3.05	
Cellulose	%	1.97	
Lignin	%	0.42	
Starch	%	24.80	
Sugar	%	4.60	

Energy (5)

Gross Energy	MJ/kg	16.48	
Digestible Energy (15)	MJ/kg	14.47	
Metabolisable Energy (15)	MJ/kg	13.27	
Atwater Fuel Energy (AFE) (8)	MJ/kg	14.50	
AFE from Oil	%	17.05	
AFE from Protein	%	44.15	
AFE from Carbohydrate	%	38.80	

Fatty Acids

Saturated Fatty Acids			
C12:0 Lauric	%	0.07	
C14:0 Myristic	%	0.21	
C16:0 Palmitic	%	1.13	
C18:0 Stearic	%	0.21	

Monounsaturated Fatty Acids			
C14:1 Myristoleic	%		
C16:1 Palmitleic	%	0.22	
C18:1 Oleic	%	2.22	

Polyunsaturated Fatty Acids			
C18:2(ω6) Linoleic	%	1.07	
C18:3(ω3) Linolenic	%	0.16	
C20:4(ω6) Arachidonic	%	0.49	
C22:5(ω3) Clupanodonic	%	0.17	

Amino Acids

Arginine	%	2.69	
Lysine (6)	%	2.44	
Methionine	%	0.71	
Cystine	%	0.54	
Tryptophan	%	0.42	
Histidine	%	0.95	
Threonine	%	1.55	
Isoleucine	%	1.81	
Leucine	%	2.89	
Phenylalanine	%	1.69	
Valine	%	1.89	
Tyrosine	%	1.29	
Taurine	%		
Glycine	%	3.47	
Aspartic Acid	%	3.02	

NUTRIENTS

		Total	Supp (9)
Glutamic Acid	%	5.82	
Proline	%	1.85	
Serine	%	1.67	
Hydroxyproline	%	0.30	
Hydroxylysine	%	0.02	
Alanine	%	0.35	

Macro Minerals

Calcium	%	2.44	0.23
Total Phosphorus	%	1.33	0.04
Phytate Phosphorus	%	0.14	
Available Phosphorus	%	1.19	0.04
Sodium	%	0.27	
Chloride	%	0.35	
Potassium	%	0.84	
Magnesium	%	0.17	

Micro Minerals

Iron	mg/kg	226.26	31.60
Copper	mg/kg	17.03	6.26
Manganese	mg/kg	68.98	45.08
Zinc	mg/kg	83.53	52.03
Cobalt	µg/kg	503.54	399.15
Iodine	µg/kg	1842.59	279.08
Selenium	µg/kg	520.70	0.17
Fluorine	mg/kg	7.64	

Vitamins

β-Carotene (2)	mg/kg	0.09	
Retinol (2)	µg/kg	4503.17	4500.19
Vitamin A (2)	iu/kg	15009.95	15000.62
Cholecalciferol (3)	µg/kg	172.76	60.00
Vitamin D (3)	iu/kg	6910.53	2400.00
α-Tocopherol (4)	mg/kg	152.03	140.95
Vitamin E (4)	iu/kg	167.23	155.05
Vitamin B ₁ (Thiamine)	mg/kg	12.74	9.81
Vitamin B ₂ (Riboflavin)	mg/kg	15.46	11.76
Vitamin B ₆ (Pyridoxine)	mg/kg	20.28	13.73
Vitamin B ₁₂ (Cyanocobalamine)	µg/kg	105.35	75.00
Vitamin C (Ascorbic Acid) (16)	mg/kg	52.52	52.52
Vitamin K (Menadione)	mg/kg	71.55	71.55
Folic Acid (Vitamin B ₉)	mg/kg	5.33	2.94
Nicotinic Acid (Vitamin PP) (6)	mg/kg	79.74	27.54
Pantothenic Acid (Vitamin B _{3/5})	mg/kg	23.65	11.63
Choline (Vitamin B _{4/7})	mg/kg	1891.85	0.21
Inositol	mg/kg	1509.27	6.30
Biotin (Vitamin H) (6)	µg/kg	458.12	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.