

FA Diamond – Peach
SPECIFICATION

Product Description	FA Diamond Whey Protein Hydrolysate based sports supplement. The protein has been lightly hydrolysed to provide a high quality source of peptides and a low bitter flavour profile. The Powder supplement is sweetened and flavoured to give a great tasting product.
Flavour	Peach
Customer	Fitness Authority
Product Code	SF8148289
Ingredient Listing	Hydrolysed Whey Protein Concentrate (Emulsifier: Soy Lecithin), Flavouring, Natural Colouring (Carotene, Carmine) Sweeteners (Acesulfame K, Sucralose), Salt, Digestive Enzyme (Aminogen® (a Registered Trademark of Triarco Industries and is Protected by U.S. Patent No. 5, 387, 422.)).

Chemical	Specification	Typical	Test Method
Energy		396 Kcal / 1657KJ	Kjeldahl
Total Protein (N*6.41) % as is	72.0Min	74.0	Kjeldahl
Total Carbohydrate %		7.00	Oven
of which sugars %		5.8	NIR
Total Fat %	10.0Max	8.00	Furnace 550°C
of which saturates %		5.68	Calculated
Fibre %		0.00	Calculated

Other Added Active Ingredients	Typical per 100g
Aminogen® (mg) (Digestive Enzyme	380
	Calculated

Microbiological			
Standard Plate Count (SPC)	<50,000 / g	<10,000 / g	ISO 4833:2003
Coliforms	<10 / g	< 10 / g	ISO 4832:2006
E.coli	<10 / g	< 10 / g	ISO 16649-2:2001
Staph. aureus	< 10 / g	< 10 / g	ISO 6888:2003
Salmonella	Neg / 25.0g	Neg / 25.0g	ISO 6579:2002
Yeast & Moulds	< 100 / g	<10 / g	ISO 6611:2004

Physical			
Bulk Density	0.40 ± 0.10 g/cc	0.40 g/cc	IDF134:1996
Appearance		Homogenous, free-flowing powder	Visual
Colour		Cream	Visual
Organoleptic		Characteristic of Peach Flavour, free from Taste off-flavour	

Mineral Profile		
Calcium (mg/100g)	538	Atomic Spectroscopy
Sodium (mg/100g)	343	Atomic Spectroscopy
Potassium (mg/100g)	2934	Atomic Spectroscopy
Magnesium (mg/100g)	59	Atomic Spectroscopy
Phosphorous (mg/100g)	733	Atomic Spectroscopy
Chloride (mg/100g)	291	Titration

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Hydrolysis Characteristics	Specification		Typical	
Degree of Hydrolysis (%)	4.0 ± 2		5.0	TNBS Assay
AN / TN (%)	6.0 – 11.0		9.0	Calculated
Molecular Weight Profile	> 10,000	Daltons (%)	57	Size Excl. Chromatography
	5,000 – 10,000	Daltons (%)	4	Size Excl. Chromatography
	2,000 – 5,000	Daltons (%)	7	Size Excl. Chromatography
	1,000 – 2,000	Daltons (%)	7	Size Excl. Chromatography
	500 – 1,000	Daltons (%)	8	Size Excl. Chromatography
	< 500	Daltons (%)	17	Size Excl. Chromatography
Average Molecular Weight	Daltons		12,253	Calculation

Typical Nutritional Information			Storage Store under clean, cool, dry conditions not exposed to direct sunlight or strong odours and avoiding direct contact with walls and floors. Recommended shelf life is 24 months. Allergen Information Contains Milk and Soya.
Amino Acid Profile (Calculated)	(g per 100g Powder)	(g per 100g Protein)	
Leucine	9.14	12.22	
Isoleucine	4.92	6.58	
Valine	4.98	6.65	
<i>Total Branched Chain Amino Acids</i>	<i>19.03</i>	<i>25.45</i>	
Aspartic Acid	9.30	12.43	
Glutamic Acid	14.88	19.90	
Serine	4.62	6.17	
Glycine	1.62	2.17	
Histidine	1.57	2.10	
Arginine	2.34	3.12	
Threonine	6.30	8.42	
Alanine	4.17	5.57	
Proline	4.93	6.59	
Tyrosine	2.64	3.53	
Methionine	1.57	2.10	
Cystine	2.08	2.78	
Phenylalanine	2.79	3.73	
Lysine	7.92	10.59	
Tryptophan	1.21	1.62	