

Technical Department

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www.kentfoods.co.uk

35 High Fat (HFR 35)

TECHNICAL SPECIFICATION

Product Description		h Fat Whey Protein Concentrate (WPC) is a food grade powder containing high tein. It is manufactured from dairy whey using ultrafiltration and spray drying		
Ingredient Listing	Whey Protein Concentrate (Milk)			
Chemical	Specification	Typical	Test Method	
Protein (N*6.38) (%)	34.0 Min	34.0	Kjeldahl	
Total Nitrogen (TN) (%)	5.3 Min	5.3	Kjeldahl	
Moisture (%)	6.0 Max	5.0	Oven	
Fat (%)	16.0 Max	12.0	NIR	
Ash (%)	7.0 Max	6.5	Furnace 550°C	
Lactose (%)	56.0 Max	46.0	Calculated	
рН	6.0 Min	6.3	10% Aq Soln	
Microbiological				
Standard Plate Count (SPC)	<50,000 / g	<10,000 / g	ISO 4833:2003	
Enterobacteriaceae	<10 / g	<10 / g	ISO 21528:2004	
E.coli	<10 / g	<10 / g	ISO 16649-2:2001	
Staph. aureus	<10 / g	<10 / g	ISO 6888:2003	
Salmonella	Not Detected / 25g	Not Detected / 25g	ISO 6579:2002	
Yeast & Moulds	<50 / g	<10 / g	ISO 6611:2004	
Physical				
Scorched particles	Disc B or better	Disc A	ADPI Bulletin 916	
Bulk Density	0.65 ± 0.10 g/cc	0.65 g/cc	IDF134:1996	
Appearance		Homogenous, free-flowing powder	Visual	
Colour		Creamy white	Visual	
Organoleptic		Typical, free from off-flavour	Taste	
Mineral Profile				
Calcium (mg/100g)		650	ICP (Ref: ISO13804:2013)	
Sodium (mg/100g)		700	ICP (Ref: ISO13804:2013)	
Potassium (mg/100g)		1,600	ICP (Ref: ISO13804:2013)	
Magnesium (mg/100g)		110	ICP (Ref: ISO13804:2013)	
Phosphorous (mg/100g)		550	ICP (Ref: ISO13804:2013)	
Chloride (mg/100g)		1,300	Titration	



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Typical Nutritional Information

Amino Acid Profile	(g per 100g Powder)	(g per 100g Protein)
Leucine	2.11	6.03
Isoleucine	0.97	2.77
Valine	1.96	5.60
Total Branched Chain Amino Acids	5.04	14.40
Aspartic Acid	4.12	11.77
Glutamic Acid	0.75	2.14
Serine	6.63	18.94
Glycine	1.03	2.94
Histidine	2.01	5.74
Arginine	1.16	3.31
Threonine	1.63	4.66
Alanine	2.12	6.06
Proline	0.61	1.74
Tyrosine	0.56	1.60
Methionine	0.79	2.26
Cystine	1.88	5.37
Phenylalanine	3.53	10.09
Lysine	3.62	10.34
Tryptophan	0.23	0.66

Protein Utilisation*

PER	3.5	
BV	104	
PDCAAS	0.96	
Digestibility	98-100%	

* As per scientific literature

Fatty Acid Profile		
Saturates (%)	5.18	
Mono-unsaturates (%)	2.45	
Polyunsaturates (%)	0.37	
Cholesterol (mg/100g)	160.0	

Carbohydrates		
Lactose (%)	46.0	
Glucose (%)	<0.01	
Sucrose (%)	<0.01	
Energy	398 Kcal / 1665 KJ	
Fibre	Nil	

Diet Suitability

This product is suitable for individuals with the following dietary requirements: Kosher, Halal, Vegetarian, Ovo8j-Lacto Vegetarian, Coeliac, Diabetic, Nut/Seed free.

This product neither contains nor consists of genetically modified organisms (GMO's) nor is it produced from or contains ingredients produced from GMO's.

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 36 months

Packaging

Packed in 25kg multiwall papersacks with polythene liners. Each sack will be heat sealed. The product will be palletised and shrink wrapped.

Labelling

The following will be printed in large blue writing on white sacks. "Carbelac", Manufactured by Carbery Food Ingredients and processor EU number.

Coding

Each sack will be individually coded by an automatic ink jet system to ensure traceability

Allergen

Refer to bold print in Ingredient Listing