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# Product information sheet

## Insect Protein Concentrate (IPC)

Document number: 2020V1

Product code: FG00009

### General Description

Article	Insect Protein Concentrate (Alphitobius diaperinus).
Description	An easily dispersible, high protein powder made from whole buffalo larva that is ideal for sports nutrition.
Origin	Protifarm Processing B.V., The Netherlands.
Process	Buffalos are produced and processed in accordance with HACCP guidelines. Wet milled and then spray dried.
Appearance	Beige/off white colour, dry powder, slight savoury flavour.
Certifications	HACCP
Producer	Protifarm Processing B.V.
Ingredients	Alphitobius Diaperinus, rosemary oil.

### Packaging, labelling, transportation, storage, shelf-life

Packaging	20kg LDPE lined bags on pallet.
Labelling	Label shall specify: Ingredient name, supplier name, country of origin, batch number, net weight and best before date.
Transportation	20kg bags on pallet.
Storage conditions	Keep cool, dark and away from moisture.
Shelf-life	This product has a shelf life of 12 months in storage if stored according to specified storage conditions.

### Nutritional values and chemical analysis (g/100g)

(Average values according to analysis and calculations)

	Typical
Energy (kcal)	470
Protein	58,50
Fat of which:	22,4
Saturated fatty acids	8,2
Mono-unsaturated acids	7,3
Poly-unsaturated acids	6,9
Carbohydrates of which:	8,1
Sugars	1,5
Fibers	1,4
Salt (2.5*Na)	1,8
Moisture	<5

Nutritional values for this product can vary, because of its natural composition

### Amino acids (g/100g)

	Typical
Alanine (Ala)	3,7
Arginine (Arg)	3,3
Aspartic acid (Asp)	5,3
Cystein (Cys) + Cystine	0,6
Glutamic acid (Glu)	7,9
Glycine (Gly)	2,6
Histidine (His)*	1,8
Hydroxyproline	0,2
Isoleucine (Ile)*	2,5
Lysine (Lys)*	3,9
Leucine (Leu)*	4,0
Methionine (Met)*	0,9
Phenylalanine (Phe)*	2,5
Proline (Pro)	3,5
Serine (Ser)	2,4
Tyrosine (Tyr)	3,6
Threonine (Thr)*	2,4
Tryptophan (Try)*	0,7
Valine (Val)*	3,2

\*Essential Amino Acids

### Fatty acids (% of total fats)

	Typical
C16:0 (Palmitic acid)	27,1
C18:0 (Stearic acid)	7,8
C18:1-n9c (Oleic acid)	31,3
C18:2-n6c (Linoleic acid)	28,7
C18:3 n3 (alpha-linolenic acid)	1,8
Saturated fatty acids	36,5
Sum monounsaturated fatty acids (MUFA)	32,7
Sum polyunsaturated fatty acids (PUFA)	30,9
Total Trans Fatty Acids	0,4
Fatty Acids. Sum Of Omega 3 Calc.	2,0
Fatty Acids. Sum Of Omega 6 Calc.	28,8

### Minerals (mg/kg)

	Typical
Calcium (Ca)	1018
Copper (Cu)	20
Iron (Fe)	45
Magnesium (Mg)	1325
Manganese (Mn)	7
Phosphorus (P)	9000
Potassium (K)	13250
Zinc (Zn)	113

### Vitamins

	Typical
A (Retinol) µg/100 g	< 21
B8 (Biotin) mg/kg	1,5
B12 (Cyanocobalamin) µg/100 g	5,3
B9 (Folate) mg/kg	3
B3 (Niacin) mg/100 g	12
B5 (Pantothenic acid) mg/kg	65
B6 (Pyridoxine) mg/kg	2,8
B2 (Riboflavin) mg/kg	16,8
B1 thiamin base mg/kg	2,7
B1 (thiamin. HCl) mg/kg	3,4
C (ascorbic acid) mg/kg	nd
D3 (Cholecalciferol) µg/100 g	1,3
E (Alpha-Tocopherol) mg/100 g	1,8

Allergy information	Cross reactivity	Cross contamination	
Cereals containing gluten	-	-	+ = present
Crustaceans*	+	-	- = absent
Eggs	-	-	? = unknown
Fish	-	-	
Peanut	-	-	
Gluten	-	+/-	
Soybeans / Soya	-	-	
Milk	-	-	
Nuts	-	-	
Celery and celeriac	-	-	
Mustard	-	-	
Sesame	-	-	
Sulphur dioxide and sulphites	-	-	
Lupin	-	-	
Molluscs*	+	-	

\*People who are allergic to crustaceans and/or molluscs can also have an allergic reaction to buffalo's

### Microbiological data (cfu/g)

Micro-organisms	m (target)	M (maximum levels)
Salmonella	Absent in 25 g	Absent in 25 g
Listeria monocytogenes	Absent in 25 g	Absent in 25 g
Total viable counts	10.000 cfu/g	100.000 cfu/g
Enterobacteriaceae	10 cfu/g	100 cfu/g
E-coli	10 cfu/g	50 cfu/g
Staphylococcus aureus	10 cfu/g	100 cfu/g
Yeasts	100 cfu/g	500 cfu/g
Moulds	100 cfu/g	500 cfu/g
Bacillus cereus	100 cfu/g	500 cfu/g
Clostridium perfringens	10 cfu/g	10 cfu/g

### Standard legend

- \*1 Own standard
- \*2 Legal standard in Regulation EC No 2073/2005

### Legislation

#### General legislation

Product produced in accordance with the EU regulations: EC No 852/2004, 2073/2005 and 1881/2006.

#### GMO legislation

Product does not contain GMO or ingredients produced with GMO in accordance with EU Regulation EC No 1829/2003 and 1830/2003.

#### Novel Food legislation

IPC qualifies as a Novel Food under EU Regulation 2015/2283. The authorization of this product is ongoing.

The world's first food ingredient line made of insects



#### Disclaimer & confidentiality

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