

PRODUCT SPECIFICATION

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Producer:	Seagarden AS Husøyveien 278 4262 Avaldsnes Norway	
Date: 26.01.2017	Version: 09	

Product name:	MARINE COLLAGEN POWDER 3KD	Product Code: 9100
Product Type:	HYDROLYZED COLLAGEN CAS NO: 92113-31-0/73049-73-7 EC NO: 295-635-5/-	
EU Legal Label Declaration:	See list of ingredients	
Product Description:	Powder made from skin of wild caught codfish (<i>Gadus morhua</i>) from the North Atlantic ocean. The product is free from artificial additives ensuring purity and high quality. The product is enzymatically treated and spray-dried into a granulated powder. The product is produced according to EU regulation 852/2004, 853/2004 – with EU 2016/355 amending Annex III and 854/2004	
List of ingredients in descending order of weight conforming to EU regulations	Codfish skin (<i>Gadus morhua</i>)	

Appearance, Taste, Aroma:	Fine light yellowish powder, neutral odor and taste, instant soluble in water.
Application:	Human consumption
Organoleptic testing	5g powder to 2 dl cold water

Packaging	Heat-sealed, blue PE bags (100 my). Unit weight - 10 kg net
Label Details	Manufacturers' name and address, batch number, FAO, product name & code, date of production, date of minimum durability.
Shelf life	36 months when stored in unopened bags at stated conditions of storage.
Storage	This product should be kept stored in dry conditions at maximum 20 °C (68 °F).
Handling	Good hygiene must be practiced and bags should be closed immediately after use.

GMO Status:	This product does not contain and is not produced using any GM ingredients or processing aids and is designated as GMO free according to EU Directive 2001/18/CE, Regulation CE 1829/2003 and Regulation CE 1830/2003.
Contamination of foreign substance	According to EU regulation 853/2004
Country of Origin:	Norway
Country of manufacturing:	Norway
Materials of Animal Origin:	Fish (<i>Gadus morhua</i>)
Declarable Allergens conforming to EU regulations:	Fish

Product: MARINE COLLAGEN POWDER 3KD

Suitability for Special Diets:

Coeliac	Yes	Halal	Yes
Diabetic	Yes	Kosher	No

Microbiological parameters

Micro-organism	Frequency	Max cfu/g	Method
Total plate count	Batch	<1000	NMKL 86
Enterobacteriaceae	Batch	<100	AFNOR 01/06-09/97
Escherichia coli	Batch	Negative in 1g	ISO/TS 16649-3:2005
Salmonella	Batch	Negative in 25g	NMKL 71
Mould and yeast	Batch	<1000	AOAC 997.01
Sulphite-Reducing Clostridia	Periodically	<100	NMKL 56
Listeria monocytogenes	Periodically	Negative 25g	BioRad Rapid L.mono
Bacillus cereus	periodically	<100	NMKL67

Typical nutritional content

Natural variations occur

		Average Content g/100g	Method
Energy	Kcal	389	Calculated
	KJ	1 634	Calculated
Total solids	%	≥ 92	EU 152/2009
Protein		≥ 95	EU 152/2009
Ash		< 2	EU 152/2009
Fat		< 0.5	EU 152/2009
Salt		< 1	EU 152/2009
Sodium		< 0.5	Calculated
pH 10% solution		5-7	ES-EN ISO-10523

Molecule weight	Approximately 3 KD
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Typical value Amino Acid profile g/100g protein

Glycine	29.24
Alanine	10.85
Hydroxyproline	7.02
Proline	12.19
Valine	2.37
Leucine	2.93
Isoleucine	1.65
Serine	7.44
Threonine	3.06
Aspartic acid	7.44
Glutamic acid	11.98
Methionine	1.67
Cystine	<0.006
Tyrosine	0.77
Phenylalanine	2.12
Histidine	1.42
Arginine	9.77
Lysine	4.28
Ornithine	<0.05
Tryptophane	0.06



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Residual material mg/kg

Cd	<0.05	ICP-SFMS	Periodically
Hg	<0.05	ICP-SFMS	Periodically
Pb	<0.10	ICP-SFMS	Periodically
As	<1.00	ICP-SFMS	Periodically
Zn	50	ICP-SFMS	Periodically
Cu	30	ICP-SFMS	Periodically
Cr	10	ICP-SFMS	Periodically
SO2	<10	AM/C/925 – Williams	Periodically
H2 O2	10	Reflectrometric – Internal	Batch

Material Safety Data:

Health Considerations:	This product is produced for human consumption and conforms to The Food Safety Act 1990 & Regulation (EC) No 178/2002. Norwegian Food Safety Authority supervise that Seagarden AS has systems that ensure compliance with the requirements of food law. As with all fine powder products dusting may occur, which could cause irritation to respiratory passages. Prolonged contact with the skin should also be avoided. In the event of powder contact with the eye it is recommended that prolonged irrigation with water should be carried out in the first instance and that medical advice should be sought as soon as possible if problems occur.
Fire & Explosion:	This product is non-flammable and non-toxic. As with all fine powder products it is capable of forming flammable dust clouds given the extraordinary conditions necessary for this phenomenon. Under normal conditions of use this hazard is not perceived as significant. As a precaution, sources of ignition should be eliminated and build up of dust on floor and machinery avoided.
Spillage & Disposal:	Spillages should be swept up immediately and the affected surfaces cleaned and flushed with hot water. Adequately diluted with hot water this product will not have any adverse effect on effluent management systems.
Handling & Storage:	Avoid prolonged inhalation

**This specification may be changed without prior notification, unless otherwise agreed.
Please revert to us for confirmation of the latest edition of this specification**

