KENNE 6493 SHORE ROAD

KENNEY & ROSS LIMITED

6493 SHORE ROAD, PORT SAXON, NOVA SCOTIA CANADA BOT 1WO

Phone (902) 637-2616

www.kenneyandross.com

Page **1** of **4**

Product Name	FISH COLLAGEN		
Material No.	HFC-15, HFC-350		
Product Ref.	HFC, FCP, LMW	CAS No.	68410-45-7
Effective Date	May 1, 2022	EC No.	270-082-2

PRODUCT DESCRIPTION:

Fish Collagen is manufactured from collagen which is the principal protein found in skin and bones. Kenney & Ross Ltd fish collagen is produced from the skins of deep-water fish such as wild caught cod, haddock and pollock, while animal collagen is typically extracted from bovine or porcine skin. Our fish skin source and manufacturing comply with CFIA, EU, EP, USP, JP, Kosher, and Halal standards.

Since the hydrolyzed (hydrolysed) collagen is manufactured from the skins of kosher fish, it is able to meet strict kosher standards. Hydrolyzed Fish Collagen is hydrolyzed with acid and food grade enzyme to further break down the molecular weight.

No genetically modified materials are used in Kenney & Ross Ltd. Collagen products. After filtering, purification, and concentration, the product is heat treated and dried. Collagen has a high protein content, is very water soluble and has no off odor or taste. It can be used as a protein additive in nutraceutical, cosmetic or food applications and will meet the purity requirements of the United States, European and Japanese Pharmacopoeia.

Typical Properties

SPECIFICATION		
Raw Material	Fish Skin	
Product Classification	Collagen	
Appearance	Powder	
Color as Dry	White to off-white	
Odor	No off Odour	
Taste	Neutral	
Identity	Corresponds	
pH of 10% Solution	5.0 - 6.5	
Viscosity of 10% Solution	1.0 - 3.0 cSt	
Loss on Drying	≤7%	
Protein	91% min	
Solubility / Water Insoluble	≤0.005g/10g	
Total Nitrogen	≥15.0 g/100g	
Hydroxyproline	≥6%	
Heavy Metal	≤10 ppm	
Arsenic	≤0.3 ppm	
Cadmium	≤0.1 ppm	

F QAL-067 Rev. Date: January 30/2025 Rev. No.: 1

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Page **2** of **4**

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SPECIFICATION	
Chromium	≤1.0 ppm
Copper	≤5 ppm
Iron	≤10 ppm
Lead	≤0.3 ppm
Mercury	≤0.1 ppm
Tin	≤1.0 ppm
Zinc	≤30 ppm
Sodium	≤1400 ppm
Peroxide	≤10 ppm
Sulphur Dioxide / Sulphite	≤10 ppm
Conductivity	<1800 μs/cm
Density	0.30 - 0.40 g/cc
Total Ash	≤1.0%
Aerobic Colony Count	1000 cfu/g max
Aerobic Mesophilic Count	300 cfu/g max
Bacillus Cereus	<10 cfu/g
Clostridium perfringens	<10 cfu/g
Coliforms @30°C	<0.3 MPN/g
Coliforms @44.5°C	<3 MPN/g
E. coli	Absent/ 25g
Enterobacteriaceae	<10 cfu/g
P. aeruginosa	Absent /10g
Salmonella	Negative /25g
Shigella spp.	Negative /25g
S. aureus	Absent /10g
Anaerobic Sulphite Reducers	10 cfu/g max
Yeast & Mold	100 cfu/g max
Preservatives	No
Kosher Certification	OU
Halal	IFANCA

F_QAL-067 Rev. Date: January 30/2025 Rev. No.: 1

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www.kenneyandross.com

Page 3 of 4

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Average Amount of Amino Acids

Amino Acid	Residues/1000	Weight Percent
Aspartic Acid	37	4.7
Glutamic Acid	68	9.7
Hydroxyproline	55	6.8
Serine	63	6.0
Glycine	347	21.8
Histidine*	15	2.3
Arginine	62	10.6
Threonine*	33	3.7
Alanine	109	8.5
Proline	98	10.5
Tyrosine	3	0.5
Valine*	16	1.7
Methionine*	12	1.7
Cysteine		
Isoleucine*	10	1.2
Leucine*	18	2.2
Hydroxylysine	9	1.4
Phenylalanine*	13	2.1
Tryptophan*		
Lysine*	32	4.5
TOTAL	1000	99.9

^{*}Essential amino acids. These are readily available in meat, poultry, eggs, fish, milk, and cheese, which are all part of a balanced diet.

F_QAL-067 Rev. Date: January 30/2025 Rev. No.: 1

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www.kenneyandross.com

Page 4 of 4

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Nutritional Information

Typical Nutritional Information per 100 Grams			
Calories	470		
Fat	0.0 g		
Saturated	0.0 g		
Monounsaturated	0.0 g		
Polyunsaturated	0.0 g		
Trans Fat	0.0 g		
Cholesterol	0.0 g		
Sodium	0.1 g		
Total Carbohydrates	0.0 g		
Total Dietary Fiber	0.0 g		
Sugars	0.0 g		
Protein (Min)	93.5%		
Vitamin A	0.0		
Vitamin C	0.0		
Calcium	0.5 mg		
Potassium	0.5 mg		
Iron	0.4 mg		
Ash	0.5%		
Moisture (Max)	6.0%		

Storage Conditions:	
Ambient Temperature and Humidity	

Shelf Life:		
5 years		

Package Sizes:		
15 Kg Boxes		
360 Kg Bulk Bags		

F_QAL-067 Rev. Date: January 30/2025 Rev. No.: 1