



# KENNEY & ROSS LIMITED

R.R. # 3 SHELBURNE, NOVA SCOTIA CANADA B0T 1W0  
PHONE: (902) 637-2616 FAX: (902) 637-2511

## Hydrolyzed Fish Collagen Food Grade

Hydrolyzed Fish Collagen is manufactured from collagen which is the principal protein found in skin and bones. Animal collagen is typically extracted from bovine or porcine skin while our fish collagen is produced from the skin of deep water, ocean fish such as cod, haddock and pollock. 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 then further hydrolyzed with a food grade enzyme to further break down the molecular weight. No genetically modified materials are used in this product or in any of our Fish Gelatins. After filtering, purification and concentration, the HFC is heat treated then spray dried.

The HFC has 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.

CAS no. 68410-45-7  
EINECS no. 270-082-2

### Specifications:

#### TYPICAL PROPERTIES OF HYDROLYZED FISH COLLAGEN

Appearance	Powder
Odor as Supplied	None
Color in Solution	Light Amber
pH of 10% Solution	5.0-6.5
Protein	91% min.
Moisture	8 % max.
Visc. of 10% Solution @ 30°C	<50 mps
Bloom	0 g
Total Ash	2.0% max.



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Heavy Metals	<10 ppm
Arsenic	< 0.8 ppm
Chromium	<10 ppm
Lead	<1.5 ppm
Sulfur Dioxide	<50 ppm
Hydrogen Peroxide	0 %
Aerobic Bacterial Count	1000/g max
Enterobacteria	Test neg/g
Salmonella	Test neg/25g
Escherichia Coli	Test neg/25g
Pseudomonas A.	Test neg/10g
Staphylococcus A.	Test neg/ 1g
Yeast and Mold Count	100/g max
Preservatives	No
Kosher Certification	OU

Listed below is the typical amino acid analysis of Hydrolyzed Fish Collagen made from the skins of deep sea, cold water fish such as cod, pollock, haddock and hake. The generic term for these fish is whitefish.

**Amino Acid (Residues/1000 Amino Acids)**

<b>Aspartic Acid</b>	<b>37</b>
<b>Glutamic Acid</b>	<b>68</b>
<b>Hydroxyproline</b>	<b>55</b>
<b>Serine</b>	<b>63</b>
<b>Glycine</b>	<b>347</b>
<b>Histidine</b>	<b>15</b>
<b>Arginine</b>	<b>62</b>



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<b>Threonine</b>	<b>33</b>
<b>Alanine</b>	<b>109</b>
<b>Proline</b>	<b>98</b>
<b>Tyrosine</b>	<b>3</b>
<b>Valine</b>	<b>16</b>
<b>Methionine</b>	<b>12</b>
<b>Cystine</b>	<b>---</b>
<b>Isoleucine</b>	<b>10</b>
<b>Leucine</b>	<b>18</b>
<b>Hydroxylysine</b>	<b>9</b>
<b>Phenylalanine</b>	<b>13</b>
<b>Tryptophane</b>	<b>---</b>
<b>Lysine</b>	<b>32</b>

