

# SeaPro<sup>®</sup> 75

## Deboned Fish Protein

SeaPro<sup>®</sup> 75 is a deboned, low-ash, high-protein fish product derived mainly from fresh cuttings of Pacific whiting (*Merluccius productus*) harvested and processed for human consumption. All processing is domestic, and shore based. All facilities are federally inspected. Commercial fisheries targeting Pacific whiting and other groundfish species on the West Coast of the United States conform to [Marine Stewardship Council](#) standards and reflect our “Sustainability Mission” to promote socially and ecologically responsible marine resource management practices worldwide. Utilizing only fish cuttings from established marine fisheries managed as sustainable natural resources is the best way to ensure our product is wholesome, renewable, and consistently available.

SeaPro<sup>®</sup> 75 is a unique, consistent feed ingredient. Product specifications do not vary seasonally, and each production lot is formulated and blended to standard nutrient levels. Our ingredient is a concentrated source of highly digestible intact fish protein, extremely low in ash, and provides a supplemental level of omega-3 docosahexaenoic (DHA) and eicosapentaenoic (EPA) fatty acids. It is stabilized with natural antioxidants. This premium product has application for improving feed protein quality, and validating flavor, label and natural claims.

SeaPro<sup>®</sup> 75 is an ideal protein source for supporting certain microbial growth in fermentation processing. Fish cuttings are extensively deboned and finely screened to reduce particle size and improve process incorporation. Most important, all protein is in its natural, complex structure (no hydrolysis) allowing for slow release of nitrogen and control of reaction rate and heat.

SeaPro<sup>®</sup> 75 is a product of the United States of America. It is traceable with documentation showing source and processing of raw material utilized in production and final product formulation. Our company benefits from vertical integration within a human seafood company, [Pacific Seafood Group](#), through access to its electronic tracking of fish catch, landings and processing, and the subsequent disposition of fresh cuttings. Pacific Seafood Group maintains strict quality standards based on scientifically derived FSMA/HACCP systems at all our locations to ensure that the product you receive is the highest quality.

Customers are always welcome to visit our facilities and review our practices. Our definition of excellence, “*consistently doing your best and always striving to do better*”, demonstrates our commitment to providing a traceable, sustainable, and wholesome product to our customers and yours.

### Guaranteed Analysis

Crude Protein	≥ 75.0 %
Crude Fat	≥ 7.0 %
Crude Fiber	≤ 1.5 %
Ash	≤ 5.5 %
Moisture	≤ 10.0 %
Salt	≤ 1.5 %

## Typical Analysis

Amino Acids	(% meal)	(g / 100 g protein)
Alanine	4.4	5.6
Arginine	5.0	7.4
Aspartic Acid	7.5	9.7
Cystine	1.0	1.3
Glutamic Acid	10.6	13.4
Glycine	3.4	4.5
Histidine	1.8	2.3
Isoleucine	3.7	4.8
Leucine	6.4	8.4
Lysine	6.9	8.9
Methionine	2.3	2.9
Phenylalanine	3.7	4.8
Proline	2.8	3.6
Serine	3.4	4.3
Taurine	0.2	0.3
Threonine	4.0	5.0
Tryptophan	1.2	1.6
Tyrosine	3.3	4.3
Valine	4.4	5.8

Fatty Acids		(% meal)	(g / 100 g fat)
Myristic	C 14:0	0.3	3.0
Palmitic	C 16:0	1.8	19.0
Palmitoleic	C 16:1	0.7	7.0
Stearic	C 18:0	0.5	5.0
cis-Oleic	C 18:1 n-9	2.4	25.0
cis-Linoleic	C 18:2 n-6	0.2	1.8
gamma-Linolenic	C 18:3 n-6	N/A	0.4
α-Linolenic	C 18:3 n-3	0.2	1.5
cis-11-Eicosenoic	C 20:1 n-9	0.2	2.5
cis-11,14,17-Eicosatrienoic	C 20:3 n-3	0.2	2.0
Arachidonic	C 20:4 n-6	0.2	1.5
Eicosapentaenoic (EPA)	C 20:5 n-3	1.2	12.3
Erucic	C 22:1 n-9	0.1	1.5
Docosahexaenoic (DHA)	C 22:6 n-3	1.1	12.0
Total omega-3		2.8	28.5
Total omega-6		0.4	2.5

**Protein Digestibility** (% protein)

Pepsin Digestibility	96.0 %
Coho Salmon	95.1
Rainbow Trout	96.7

**Freshness**

Histamine	30 mg / kg meal
Total Volatile Nitrogen	100 mg N / 100 g meal

**Fat Stability**

Natural Mixed Tocopherols	1000 ppm
Peroxide Value	10.0 mEq / kg fat

**Minerals** (% meal)

Calcium	0.8
Phosphorus	0.9
Potassium	0.5
Sodium	0.4
Sulfur	0.9
Magnesium	0.16

(mg / kg meal)

Iron	250
Zinc	100
Aluminum	30
Copper	4
Manganese	5
Chromium	1

**Vitamins** (IU / kg meal)

Vitamin A	86,500
Vitamin D	4,500
Vitamin E	N/A

**Product Characteristics**

Color	Light brown
Odor	Mild fish
Physical	Free-flowing, 100% through 1.18 mm screen
Density	Approximately 22 - 26 lb / ft <sup>3</sup>
pH	6.8 – 7.5
Storage	Store in a cool, dry place in original packaging
Stability	9 months when appropriately stored



### **Microbial Analysis**

Aerobic Plate Count 10,000 cfu / g

### **Packaging**

1,500-lb or 1,800-lb bulk bags; 25-lb clay coated paper bags

### **AAFCO Ingredient Name**

Deboned Fish Protein

### **Certification**

Canada Export

### **Directions for Use**

For further manufacturing into the complete feed of animals as a source of protein.

### **Processing Statements**

This product contains fish and is processed in a facility that processes crustacean shellfish.

### **Typical Values**

The value for mixed tocopherols is a typical dosage rate, and residual value may differ at the time of shipping.

The value for peroxide is a typical value for the product at the time of shipping.

The values for freshness, amino acids, fatty acids, minerals, vitamins, aerobic plate count, and product characteristics are typical and expected.

### **Manufacturer**

Pacific Bio Products- Warrenton, LLC

(DBA BioOregon Protein, Inc.)

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