

Condensed Fish Solubles

Condensed Fish Solubles is derived from the fresh cuttings of Pacific whiting (*Merluccius productus*) originally harvested and processed for human consumption. All processing is domestic and shore-based. All facilities are federally inspected. Commercial fisheries targeting Pacific whiting 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.

Condensed Fish Solubles is a product of the United States of America. It is a source of highly digestible fish protein and provides a supplemental level of omega-3 fatty acids including docosahexaenoic (DHA) and eicosapentaenoic (EPA). It is traceable with documentation showing source and processing of raw material. Our company benefits from vertical integration within a human seafood company, Pacific Seafood Group, through access to their 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 (min)	30.0 %
Crude Fat (min)	2.5 %
Crude Fiber (max)	0.5 %
Ash (max)	10.0 %
Moisture (max)	55.0 %
Calcium (min/max)	0.0 / 0.5 %
Phosphorus (min)	1.5 %
Salt (max)	4.5 %

Amino Acids	(% meal)
Alanine	2.4
Arginine	2.1
Aspartic acid	1.6
Cystine	0.1
Glutamic acid	3.5
Glycine	3.8
Histidine	0.3
Isoleucine	0.5
Leucine	1.2
Lysine	1.6
Methionine	0.5
Phenylalanine	0.6
Proline	2.0
Serine	1.0
Threonine	0.4
Tryptophan	0.05
Tyrosine	0.3
Valine	0.7

Fatty Acids		(% meal)
Myristic	C 14:0	0.1
Palmitic	C 16:0	1.0
Palmitoleic	C 16:1	0.3
Stearic	C 18:0	0.2
cis-Oleic	C 18:1 n-9	1.2
cis-Linoleic	C 18:2 n-6	0.1
gamma-Linolenic	C 18:3 n-6	BDL
α-Linolenic	C 18:3 n-3	BDL
cis-11-Eicosenoic	C 20:1 n-9	BDL
cis-11,14,17-Eicosatrienoic	C 20:3 n-3	BDL
Arachidonic	C 20:4 n-6	BDL
Eicosapentaenoic (EPA)	C 20:5 n-3	0.7
Erucic	C 22:1 n-9	BDL
Docosahexaenoic (DHA)	C 22:6 n-3	0.5
Total omega-3		1.2
Total omega-6		0.1

Macrominerals (% meal)

Calcium	BDL
Phosphorus	1.8
Potassium	1.4
Sodium	1.7
Sulfur	0.5
Magnesium	0.1

Microminerals (mg / kg meal)

Iron	14.0
Zinc	8.0
Aluminum	BDL
Copper	57.0
Manganese	BDL
Chromium	BDL
Vanadium	BDL
Cadmium	BDL
Lead	BDL
Cobalt	BDL
Nickel	BDL
Molybdenum	BDL

Product Characteristics

Color	Light brown
Odor	Mild fish
Physical	Pourable liquid
Density	NA
pH	3.8 – 4.2
Storage	Store in a cool, dry place in original packaging
Stability	6 months when appropriately stored

Processing Statements

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

This product is not intended for human consumption.

Typical Values

The values for amino acids, fatty acids, minerals, and product characteristics are typical and expected.

Manufacturer

Pacific Bio Products- Newport, LLC
1310 SW Bay Blvd
Newport, OR 97365

w: www.biooregonprotein.com
e: biooregonmarketing@pacseafood.com
p: 541-265-8764

Technical and Sales Inquiries

Bing Brackeen

Technical Product and Market Development

e: bbrackeen@pacseafood.com
p: 503-861-2256 ext. 8808 | c: 971-601-0793

Sales

Gary Acker

International and Domestic Sales/ Global Logistics Manager

e: gacker@pacseafood.com
p: 503-905-4589 | c. 503-260-4127

January 31, 2020