

BioGan™ 5-2-1

Natural Organic Liquid Fish Fertilizer

BioGan™ 5-2-1 is a natural, organic liquid fertilizer 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.

BioGan™ 5-2-1 is a natural source of water soluble, fast-release nitrogen. It is an all-purpose fertilizer and easy to handle, pour and mix.

BioGan™ 5-2-1 is a product of the United States of America. 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 fish 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

Total Nitrogen	5.0 %
Ammoniacal Nitrogen	0.0 %
Water Insoluble Nitrogen	1.0 %
Water Soluble Nitrogen	4.0 %
Available Phosphate (P ₂ O ₅)	2.0 %
Soluble Potash (K ₂ O)	1.0 %

Major/Secondary Nutrients (%)

Phosphorus	1.1
Phosphorus as P ₂ O ₅	2.4
Potassium	1.2
Potassium as K ₂ O	1.3
Sulfur	0.4
Calcium	0.0
Magnesium	0.1
Sodium	1.6

Micronutrients (ppm)

Iron	50.0
Zinc	5.0
Boron	n.d.
Manganese	n.d.
Copper	4.0
Barium	n.d.
Chromium	5.0
Arsenic	n.d.
Cadmium	n.d.
Cobalt	n.d.
Lead	n.d.
Mercury	n.d.
Molybdenum	n.d.
Nickel	n.d.
Selenium	n.d.
Silver	n.d.

Other Nutrient Properties

Moisture	55.0 %
Total Solids	45.0 %
C:N Ratio	3:1
Total Carbon	16.0 %
Chloride	2.5 %

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

Packaging

Liquid totes or
Bulk tankers

Certification

Pending

Processing Statements

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

This product is not intended for human consumption.

The values for major/secondary nutrients, micronutrients, other nutrient properties, and product characteristics are typical and expected.

Manufacturer

Pacific Bio Products, 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 Specialist

e: bbrackeen@pacseafood.com

p: 503-861-2256 ext. 8808 | c: 971-601-0793

Annette Takko

Technical Product and Quality Assurance Specialist

e: atakko@pacseafood.com

p: 503-861-2256 ext. 8811 | c: 503-440-8998

Sales

Gary Acker

International and Domestic Sales/ Global Logistics Manager

e: gacker@pacseafood.com

p: 503-905-4589 | c. 503-260-4127

April 17, 2019