



DAYBROOK NATURAL MENHADEN FISH MEAL

Daybrook Natural (formally PF grade) is the premier quality menhaden fish meal stabilized with all natural antioxidant. This product was developed specifically for the Petfood industry to guarantee a higher fat (Omega-3) level and to be stabilized with an all-natural preservative. We produce this value-added fish meal with high quality standards requiring fresh whole fish be processed at carefully controlled temperatures and then we add 2,000 ppm Naturox-AQ to stabilize the finished meal. These two quality parameters allow us to guarantee a finish product with low TVN, histamine and other biogenic amines and that is high in digestibility while still providing a naturally preserved alternative.

Daybrook Fisheries has a dedicated fleet of 12 fishing vessels with modern refrigerated cargo holds to deliver fresh fish to the plant where they are processed immediately using a super-heated steam indirect drying system. The Daybrook plant in Empire is typically the largest processor of menhaden in the world. Daybrook has an on-site laboratory and is HACCP certified by GMP+ and NOAA Fisheries. Daybrook is also certified MarinTrust (IFFO-RS) by SAI Global as a responsible supplier. The Marine Stewardship Council (MSC) certified the Gulf Menhaden resource allowing Daybrook to sell all of its products under the coveted sustainability eco-label.

PRODUCT SPECIFICATIONS

Proximate Composition

	<u>Typical</u>	<u>Range</u>
Crude Protein (%)	63.5	(Min) 60 – 65
Fat (%)	10.8	(Min) 9 – 12
Moisture (%)	7.5	6 - 9
Ash (%)	19.6	17 – 23
Dilute Digestibility (%)	93.3	90 - 95
TVN (mg/100g)	43.0	0-150 (Max)
Histamine (ppm)	121	50 – 250 (Max)
Peroxide Value (mg/100g)	7.7	5 – 15

Amino Acids (g/100 g)

Lysine	4.83
Alanine	4.06
Valine	2.87
Threonine	2.56
Arginine	3.81
Isoleucine	2.45
Serine	2.39
Glutamic acid	8.19
Histidine	1.49
Aspartic acid	5.58
Proline	3.11
Tyrosine	1.82
Leucine	4.29
Glycine	4.98
Phenylalanine	2.33
Tryptophan	0.65
Methionine	1.72
Cysteine	0.47
Taurine	0.59
Hydroxyproline	1.03

Micro and Macro Minerals (mg/kg)

Aluminum	1349
Arsenic	4.23
Cadmium	0.093
Calcium	48133
Copper	4.85
Iron	723
Manganese	47
Magnesium	1856
Nickel	1.1
Phosphorus	30076
Potassium	10800
Selenium	1.96
Sodium	9262
Zinc	93

Vitamins (IU/100 g)

Vitamin A (total)	65.3
Vitamin D	165.2
Vitamin E	2.5

