

Certificate of Analysis

(Representative Sample Certificate)

Product Name: Oat Emollient
INCI Name: Avena Sativa (Oat) kernel oil
CAS Number: 84012-26-0
Lot Number: Not available (data may vary slightly with different lots or batches)
Expiration Date: 24 months from production date

Specification	Specification	Result
Appearance	Clear yellow/brown liquid	Clear yellow/brown liquid
Odor	Natural oat	Natural oat
Peroxide Value	NMT 12	3.7 mEq/kg Fat
Free Fatty Acid as a percent of oleic	NMT 5	2.35 g/100
Acid Value	NMT 15	4.65 mg/KOH/g
Total Neutral Lipids:	83-95%	86.5%
Triacylglycerols:	NLT 51	52.7%
Cholesterol/sterols/sterol esters:	NLT 9	15.3%
Polar Lipids:	5-16%	13.7%
Glycolipids (MGDG & DGDG):	NLT 1	3.4%
Ceramides:	NLT 1	1.9%
Phosphatidylcholine/ethylamine (PC/PE)	NLT 0.5	2.5%
Total Saturated Fat	16.0-17.5%	16.87%
C16:0 Palmitic	14.2-15.2%	14.66%
C18:0 Stearic	1.5-1.9%	1.78%
Total Monounsaturated Fat	41.0-47.5%	44.15%
C18:1 Oleic	39.7-42.9%	42.08%
Total Polyunsaturated Fat	37.2-41.5%	38.98%
Omega 6 Fatty Acids:	NLT 36	37.58%
Omega 3 Fatty Acids:	NLT 1.0	1.4%
Saponification Value	185-200	194
Unsaponifiable Matter	NMT 3	0.86 g/100g
Loss on Drying (moisture content)	NMT 0.3	0.29%
Vitamin E (Tocotrienol & tocopherol)	NLT 400	447 ppm
Gluten (Immunoassay R-Biopharm ELISA)	NMT 20	NMT 5 mg/kg
Total Aerobic Microbial Count NMT 10	NMT 10	NMT 10 cfu g/ml
Total Combined Yeast and Mold Count	NMT 10	NMT 10 cfu g/ml
E. Coli	Absent in 1g	Absent in 1g
Enterobacteriaceae	Absent	Absent
Pseudomonas aeruginosa	Absent in 1g	Absent in 1g
Salmonella spp.	Absent in 25g	Absent in 25g
Staphylococcus aureus	Absent in 1g	Absent in 1g
Candida Albicans	Absent in 1g	Absent in 1g
Residual Ethanol	NMT 150	NMT 120 ppm

The above data were obtained using the test indicated and is subject to the deviation inherent in the test method. Results may vary under other test methods or conditions. This report is not to be signed.

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