

## 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.

Property	Specification	Analysis
Appearance (Visual)	Clear Yellow/brown liquid	Brown liquid
Odor (Visual)	Natural oat	Pass
Peroxide Value (BS EN ISO 3960:2017)	12.0 meq O <sub>2</sub> /kg MAX	3.8 meq O <sub>2</sub> /kg
Free Fatty Acid (as % Oleic) (BS EN ISO 660:2009)	5.0 g/100g MAX	3.0 g/100g
Acid Value (BS EN ISO 660:2009)	15.0 mg KOH/g MAX	5.9 mg KOH/g
Saponification Value* (BS EN ISO 3657:2013)	185.0 - 200.0 mg KOH/g	186.0 mg KOH/g
Unsaponifiable Matter* (BS EN ISO 3596:2001)	3.0 g/100g MAX	1.0 g/100g
Loss on Drying (Moisture Content)* (Karl Fisher method AOCS Cd8b:90 (09))	0.3% (w/w) MAX	NMT 0.3% (w/w)
Total Neutral Lipids (AOCS Ce 1b-89 using internal standard)	83.0 - 95.0%	90.0%
Triacylglycerols (AOCS Ce 1b-89 using internal standard)	44.0% MIN	64.5%
Cholesterol/Sterols/Sterol Esters (AOCS Ce 1b-89 using internal standard)	9.0% MIN	13.5%
Total Polar Lipids (AOCS Ce 1b-89 using internal standard)	5.0 - 16.0%	10.0%
Glycolipids (MGDG & DGDG) (AOCS Ce 1b-89 using internal standard)	1.0% MIN	4.0%
Ceramides (AOCS Ce 1b-89 using internal standard)	1.0% MIN	1.0%

**Disclaimer:** This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy themselves as to the suitability & completeness of such information for their own particular use.

Phosphatidyl-choline/ethylamine (PC/PE) (AOCS Ce 1b-89 using internal standard)	0.5% MIN	1.7%
Total Saturated Fat (AOCS Ce 1b-89 using internal standard)	16.0 - 17.5%	17.5%
C16:0 (Palmitic) (AOCS Ce 1b-89 using internal standard)	14.2 - 15.2%	15.0%
C18:0 (Stearic) (AOCS Ce 1b-89 using internal standard)	1.5 - 1.9%	1.8%
Total Monosaturated Fat (AOCS Ce 1b-89 using internal standard)	41.0 - 47.5%	42.7%
C18:1 (Oleic) (AOCS Ce 1b-89 using internal standard)	39.7 - 42.9%	40.4%
Total Polyunsaturated Fats (AOCS Ce 1b-89 using internal standard)	37.2 - 41.5%	39.6%
Omega 6 Fatty Acids (AOCS Ce 1b-89 using internal standard)	36.0% MIN	38.3%
Omega 3 Fatty Acids (AOCS Ce 1b-89 using internal standard)	1.0% MIN	1.3%
Vitamin E (tocotrienol & tocopherol)* (BS EN ISO 9936:2016)	400.0 ppm MIN	509.0 ppm
Total Aerobic Microbial Plate Count (EP (Harmonized) 2.6.12)	10.0 CFU g/mL MAX	NMT 10.0 CFU g/mL
Total Combined Yeast & Mold Count (EP (Harmonized) 2.6.12)	10.0 CFU g/mL MAX	NMT 10.0 CFU g/mL
E. coli (EP (Harmonized) 2.6.13)	Absent in 1g	Pass
Enterobacteriaceae** (EP (Harmonized) 2.6.13)	Absent in 1g	Pass
Pseudomonas aeruginosa* (EP (Harmonized) 2.6.13)	Absent in 1g	Pass
Salmonella* (EP (Harmonized) 2.6.13)	Absent in 25g	Pass
Staphylococcus aureus* (EP (Harmonized) 2.6.13)	Absent in 1g	Pass
Candida albicans* (EP (Harmonized) 2.6.13)	Absent in 1g	Pass
Residual Ethanol* (BS EN ISO 9832: (modified))	5000.0 ppm MAX	102.0 ppm
Gluten Immunoassay* (TES-AC-648 (ELISA R-Biopharm))	20.0 ppm MAX	NMT 5.0 ppm

NMT: Not more than. NLT: Not less than.

“Certified in compliance with the terms of the US-Canada Organic Equivalency Arrangement. The above data was 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. All data are as per our supplier.

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