

Certificate of Analysis



Product Oat Lipid e
 Reference: DW1018ALIPID8501
 Production Date 01 January 2018
 Expiry Date 15 January 2020

Parameter	Result	Unit	Specification	Test Method
Appearance	Clear yellow/brown liquid		Clear yellow/brown liquid	
Odour	Natural Oat		Natural Oat	
Peroxide Value	5.4	mEq/kg Fat	NMT 12	BS EN ISO 3960:2010
Free Fatty Acid as a percent oleic	2.37	g/100	NMT 5	BS EN ISO 660:2009
Acid Value	4.57	mg/KOH/g	NMT 15	BS EN ISO 3596:2001, BS 684-2.7:2001
Lipid Class Composition (% Total Lipid)				
Total Neutral Lipids	86.9	Percent	83 to 95	AOCS Ce 1b-89 using internal standard
Triacylglycerols:	51.7	Percent	NLT 51	
Cholesterol/Sterols/Sterol Esters:	10.8	Percent	NLT 9	
Polar Lipids	13.1	Percent	5 to 16	
Glycolipids (MGDG & DGDG):	4.9	Percent	NLT 1	
Ceramides:	2.0	Percent	NLT 1	
Phosphatidyl-choline/ethylamine (PC/PE):	2.7	Percent	NLT 0.5	
Total Saturated Fat	16.77	Percent	16.0 to 17.5	
C16:0 Palmitic	14.73	Percent	14.2 to 15.2	
C18:0 Stearic	1.76	Percent	1.5 to 1.9	
Total Monounsaturated Fat	43.93	Percent	41.0 to 47.5	
C18:1 Oleic	41.93	Percent	39.7 to 42.9	
Total Polyunsaturated Fats	39.31	Percent	37.2 to 41.5	
Omega 6 Fatty Acids:	38.08	Percent	NLT 36	
Omega 3 Fatty Acids	1.23	Percent	NLT 1.0	
Saponification value	194		185 to 200	
Unsaponifiable Matter	0.86	g/100g	NMT 3	BS EN ISO 3596:2000
Loss on drying (Moisture content)	0.29	Percent (w/w)	NMT 0.3	Karl Fisher method AOCS Cd8b:90 (09)
Vitamin E				
Tocotrienol & Tocopherol	510	ppm	NLT 400	
Gluten				
Gluten Immunoassay (R-Biopharm ELISA)	NMT 5	mg/kg	NMT 20	TES-AC-648 UKAS
Microbial				
Total Aerobic Microbial Count	NMT 10	cfu g/ml	NMT 10	
Total combined yeast and mould count	NMT 10	cfu g/ml	NMT 10	EP (Harmonised) 2.6.12
<i>Echerichia coli</i>	Absent	in 1g	Absent	EP (Harmonised) 2.6.13
Enterobacteriaceae	Absent	cfu g/ml	Absent	Based on EP (Harmonised) 2.6.12 & 2.6.13
<i>Pseudomonas aeriginosa</i>	Absent	in 1g	Absent	EP (Harmonised) 2.6.13
<i>Salmonella spp.</i>	Absent	in 25g	Absent	EP (Harmonised) 2.6.13
<i>Staphylococcus aureus</i>	Absent	in 1g	Absent	EP (Harmonised) 2.6.13
<i>Candida albicans</i> :	Absent	in 1g	Absent	EP 7.7, section 2.1.3
Residual Ethanol	NMT 120	ppm	NMT 150	ISO9832 Animal and Vegetable Fats and Oils

NMT: Not more than. NLT: Not less than. Results accurate at the time of manufacture.

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