

Certificate of Analysis

Gracefruit Limited
209 Glasgow Road
Longcroft
Bonnybridge
FK4 1QQ

Product: AvenaPlex
Reference: SOF0719AAV
Production Date: 1st July 2019
Expiry Date: 1st July 2021

Parameter	Actual Result	Unit	Specification	Test Method
Appearance	Yellow/brown viscous liquid	–	Yellow/brown viscous liquid	Visual
Odour	Natural Oat	–	Natural Oat	Olfactory
Peroxide Value	<0.1	meq O ₂ /kg	NMT 12.0	BS EN ISO 3960:2017
Free Fatty Acid as a percent oleic	10.2	g/100g	NMT 12.0	BS EN ISO 660:2009
Acid value	20.2	mg KOH/g	NMT 30.0	BS EN ISO 3596:2001
Lipid Class Composition (% Total Lipid)				
Total Neutral Lipids	46.8	%	NLT 40.0	AOCS Ce 1b-89 using internal standard
Triacylglycerols:	28.0	%	NLT 20.0	AOCS Ce 1b-89 using internal standard
Cholesterol/Sterols/Sterol Esters:	8.9	%	NLT 5.0	AOCS Ce 1b-89 using internal standard
Other:	9.9	%	-	AOCS Ce 1b-89 using internal standard
Polar Lipids	53.2	%	NLT 40.0	AOCS Ce 1b-89 using internal standard
Glycolipids (MGDG & DGDG):	20.9	%	NLT 9.0	AOCS Ce 1b-89 using internal standard
Ceramides:	5.4	%	NLT 4.0	AOCS Ce 1b-89 using internal standard
Phosphatidylethanolamine/ Phosphatidylcholine:	8.1	%	NLT 6.0	AOCS Ce 1b-89 using internal standard
Phosphatidylinositol:	2.9	%	NLT 2.5	AOCS Ce 1b-89 using internal standard
Phosphatidic acid/Phosphatidylglycerol/ cardiolipin:	4.9	%	NLT 1.0	AOCS Ce 1b-89 using internal standard
Other:	11.0	%	-	AOCS Ce 1b-89 using internal standard
Total Saturated Fat	19.5	%	NLT 18.0	AOCS Ce 1b-89 using internal standard
Total Monounsaturated Fat	36.5	%	NLT 30.0	AOCS Ce 1b-89 using internal standard
Total Polyunsaturated Fats	44.0	%	NLT 40.0	AOCS Ce 1b-89 using internal standard
Vitamin E				
Tocotrienol & Tocopherol	478.0	ppm	NLT 350.0	BS EN ISO 9936:2016
Gluten				
*Gluten Immunoassay:	<5.0	ppm	NMT 20.0	TES-AC-648 (ELISA R-Biopharm)
Microbial				
Total aerobic microbial count	<10.0	cfu g/ml	NMT 10.0	EP (Harmonised) 2.6.12
Total combined yeast and moulds count	<10.0	cfu g/ml	NMT 10.0	EP (Harmonised) 2.6.12
<i>E. coli</i>	Absent	in 1g	Absent	EP (Harmonised) 2.6.13
<i>Enterobacteriaceae</i>	Absent	In 1g	Absent	Based on EP (Harmonised) 2.6.12 & 2.6.13
<i>Pseudomonas aeruginosa</i>	Absent	in 1g	Absent	EP (Harmonised) 2.6.13
<i>Salmonella</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 content	<500.0	ppm	NMT 500.0	16 M54 5151 9 GC-FID

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

*Analysis performed once a year.