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## Certificate of Analysis

Product: Abyssinian Seed Oil RBWD  
 INCI name: Crambe Abyssinica seed oil  
 Batch (Lot) number: NA10347  
 Manufactured: 26-August-2019  
 Retest date: 26-August-2021

Parameters	Test Method	Specification	Results
Appearance	Visual	Clear, yellow liquid	Complies
Colour	AP-011 (X-9609)	Gardner	0.8
Odour	Organoleptic	Slight to none	Complies
Peroxide Value (meq/kg)	AP-010(Cd 8b-90)	Max. 0.8	0.3
Specific Gravity at 20°C (g/cm <sup>3</sup> )	AP-003(X-9601)	0.900 – 0.920	0.907
Iodine Value (cg/g)	AP-049 (X-9604)	85 – 95	94.07
Acid Value (mg KOH/g)	AP-021((X-9603)	Max. 0.5	0.22
Saponification Value (mg KOH/g)	AP-001 (X-9608)	160 – 175	167.38
Refractive Index at 20°C	AP-009 (X-9618)	1.465 – 1.475	1.4725
Total heavy metals in ppm	ICP (Ca 17-010)	<1	<1
Microbiology Yeast and mold, Total aerobic plate count P.aeruginosa, S.aureus,	USP		pass
<b>Fatty Acid Profile (Area %)</b>			
Oleic Acid (C18:1)	10-25		14.9%
Linoleic Acid (C18:2)	7-15		8.3%
Erucic Acid (C22:1)	50-65		59.6%

This is a computer generated certificate of analysis and does not require a signature.