GREEN VALLEY LABORATORY

CERTIFICATE OF ANALYSIS

Product:	Rosehip Seed CO2 Total Extract, Organic		
INCI:	Rosa Canina (Rose Hip) Seed Extract (and) Rosmarinus Officinalis (Rosemary) Leaf Extract		
Lot #:	362	**Re-test:**	December 2028

Property	Specification	Analysis
Appearance (Visual)	Clear Oil	Conforms
Color (Visual)	Orange - Light Red	Conforms
Refractive Index (20 °C) (21.271.01, Digital Refractometer)	1.470 - 1.485	1.4796
Relative Density (20 °C) (21.024.03, Pycnometer)	0.910 - 0.930 g/cm³	0.9283 g/cm³
Moisture (21.220.01, Karl Fischer Method)	Not Specified	0.18%
Peroxide Value (AOCS Cd 8-53)	< 12 meq/kg	7.9 meq/kg
Acid Value (USP <401>)	1 - 15 mg KOH/g	2.4 mg KOH/g
Ester Value (Equal to SV - AV)	170 - 200 mg KOH/g	187 mg KOH/g
Aw-Value (22.5 °C) (LabSwift aw-Value Measurement)	< 0.7	0.460
Saponification Value (21.017.02, DGF)	180 - 210 mg KOH/g	191 mg KOH/g
Unsaponifiables (21.020.03, DGF)	< 3%	1.5%
Sum of Carotenoids (as β-Carotene) (21.008.05, Spectrometer)	0.01 - 0.02%	0.015%
Sum of Sterols (as Sitosterol) (21.132.03, GCFID)	Not Specified	0.48%
Sum of Tocopherols (as α-Tocopherol) (21.113.03, HPLC)	Not Specified	0.10%
Persistent Organic Pollutants		
Benzo(a)pyrene (21.177.02, GCMS)	< 0.002 ppm	0.001 ppm
Sum of Benzo(a)pyrene, Benz(a)anthracene, Benzo(b)fluoranthene and Chrysene (21.177.02, GCMS)	< 0.010 ppm	0.008 ppm
Fat Analysis		
Total Fat (DGF Method, C-VI 10b)	Not Specified	100.0%
Saturated Fatty Acids (DGF Method, C-VI 10b)	Not Specified	4.9%
Monounsaturated Fatty Acids (DGF Method, C-VI 10b)	Not Specified	15.2%
Polyunsaturated Fatty Acids (DGF Method, C-VI 10b)	Not Specified	79.9%
Fatty Acid Profile		
C16:0 Palmitic (21.156.03, GCFID)	2 - 6%	2.8%
C16:1 w7 Palmitoleic (21.156.03, GCFID)	Not Specified	0.11%
C18:0 Stearic (21.156.03, GCFID)	< 5%	1.4%
C18:1 w9 Oleic (21.156.03, GCFID)	12 - 22%	14.8%

C18:1 w7 Vaccenic (21.156.03, GCFID)	Not Specified	0.31%
C18:2 w6 Linoleic (21.156.03, GCFID)	41 - 59%	45.6%
C18:3 w3 α-Linolenic (21.156.03, GCFID)	20 - 35%	34.4%
C20:0 Arachidic (21.156.03, GCFID)	Not Specified	0.69%

The above data were obtained using the test-indicated method. Results may vary under other test methods and are subject to the deviation inherent in the test conditions.

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