GREEN VALLEY LABORATORY

CERTIFICATE OF ANALYSIS

Product:	Rosehip Seed CO2 Total Extract, Organic		
Lot #:	1251	**Re-test:**	February 2028
INCI:	Rosa Canina (Rose Hip) Seed Extract (and) Rosmarinus Officinalis (Rosemary) Leaf Extract		

Property	Specification	Analysis
Appearance (Visual)	Clear Oil	Conforms
Color (Visual)	Orange - Light Red	Conforms
Refractive Index, 20°C (Digital Refractometer, 21.271.01)	1.470 - 1.485	1.4796
Relative Density, 20°C, g/cm3 (Pycnometer, 21.024.03)	0.910 - 0.930	0.9283
Moisture, % (Karl Fischer Method, 21.220.01)	Not Specified	0.18
Peroxide Value, meq/kg (AOCS Cd 8-53)	< 12	7.9
Acid Value, mg KOH/g (USP <401>)	1 - 15	2.4
Ester Value, mg KOH/g (Equal to SV - AV)	170 - 200	187
Aw-Value, 22.5°C (LabSwift aw-Value Measurement)	< 0.7	0.460
Saponification Value, mg KOH/g (21.017.02, DGF)	180 - 210	191
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, ppm (21.177.02, GCMS)	< 0.002	0.001
Sum of Benzo(a)pyrene, Benz(a)anthracene, Benzo(b)fluoranthene and Chrysene, ppm (21.177.02, GCMS)	< 0.010	0.008
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

Property	Specification	Analysis
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.

DISCLAIMER

The product is stored in the unopened original container between 15°C - 30°C, protected from light. Because this material is sensitive to oxidation, it is saturated with nitrogen and sealed with nitrogen atmosphere for protection. If containers are opened for sampling, be sure to refill atmosphere with nitrogen. Containers that have been opened should be tested at least yearly to ensure quality. The information contained herein is obtained directly from the manufacturer and/or through our own independent testing. Green Valley Laboratory provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. As the ordinary or otherwise use(s) of this product is outside the control of Green Valley Laboratory, no representation or warranty, expressed or implied, is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. Green Valley Laboratory expressly disclaims responsibility as to the ordinary or otherwise use(s). Furthermore, nothing contained herein should be considered a recommendation by Green Valley Laboratory as to the fitness for any use. The liability of Green Valley Laboratory is limited to the value of the goods and does not include any consequential loss. Green Valley Laboratory shall not be liable for any errors or delays in the content or for any actions taken in reliance thereon. Green Valley Laboratory shall not be responsible for any damages resulting from the use of or reliance upon this information. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the products, including the intellectual property rights of third parties.

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