GREEN VALLEY LABORATORY

CERTIFICATE OF ANALYSIS

Product:	Rosehip Seed CO2 Total Extract, Organic		
Lot #:	1051	**Re-test:**	February 2028
INCI:	Rosa Canina (Rose Hip) Seed Extract (and) Rosmarinus Officinalis (Rosemary) Leaf Extract		
Latin Name:	Rosa canina		
Plant Part:	Seeds		
Extraction Method:	Supercritical Fluid Extraction		
Primary Constituents:	Linoleic Acid, Alpha Linolenic Acid, Oleic Acid.		
Note:	This product is stabilized with 0.1% Rosemary CO2 Antioxidant Organic		

Property	Specification	Analysis
Specific Gravity @20˚C	0.910 – 0.930	0.9290
Refractive Index @20˚C	1.470 – 1.485	1.4814
Optical Rotation @20˚C	na	na
Peroxide Value	<12 meq O2/kg	6.4 meq O2/kg
Acid Value	1-15 mg KOH/g	4.3 mg KOH/g
Saponification Value	180-210 mg KOH/g	188 mg KOH/g
Ester Value	170-200 mg KOH/g	184 mg KOH/g
Unsaponifiables	<3 %	2.1%
Physical Appearance	Liquid	Conforms
Color	Orange to light reddish	Conforms
Odor	Light vegetable/dry woody aroma	Conforms
Solubility	Soluble in fixed oils	
Fatty Acid Composition (%)		
Linoleic Acid C18:2 w6	41-59	45.2
Alpha Linolenic Acid C18:3 w3	20-35	33.9
Oleic Acid C18:1 w9	12-22	14.9
Palmitic Acid C16:0	2-6	2.6
Palmitoleic Acid C16:1 w7	na	0.18
Stearic Acid C18:0	<5	1.6
Components (%)		
Arachidic Acid C20:0	na	0.73
Vaccenic Acid C18:1 w7	na	0.46
Sum of Sterols (calc. as sitosterol)	na	0.67
Sum of Tocopherols (calc. as alpha tocopherol)	na	0.10

Property	Specification	Analysis
Sum of Carotenoids (calc. as beta-carotene)	0.01-0.02	0.015
Content of Water	na	0.16

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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