GREEN VALLEY LABORATORY

CERTIFICATE OF ANALYSIS

Product:	Castor Oil - Virgin USP Organic		
Lot #:	362	**Re-test:**	August 2028

Property	Specification	Analysis
Acid Value, mgKOH/g	≤ 2	0.46
UV Absorption @ 270nm, Abs	≤ 0.7	0.168
Water determination, %	≤ 0.3	0.17
Saponification Value, mgKOH/g	176 - 182	181.48
Hydroxyl Value, mgKOH/g	160 - 168	162.76
Peroxide Value, meq/kg	≤ 10	1.48
Unsaponifiable Matter, %	≤ 0.8	0.49
Distinction	Partly soluble in solvent hexane. Yields a clear liquid with an equal volume of alcohol.	Conforms
Fatty Acid Profile (Area)		
C:16:0 Palmitic Acid, %	≤ 2	1.21
C:18:0 Stearic Acid, %	≤ 2.5	1.45
C:18:1 Oleic Acid, %	2.5 - 6	3.17
C:18:2 Linoleic Acid, %	2.5 - 7	5.23
C:18:3 Linolenic Acid, %	≤ 1	0.53
C:20:1 Eicosenic Acid, %	≤ 1	0.29
Ricinoleic Acid, %	85 - 92	87.08
cis-11-Octadecenoic or other unidentified fatty acid, %	≤ 1	0.93
Triglyceride Composition		
RRO, %	2.5 - 5	2.52
RRS, %	0.2 - 0.8	0.56
RRL, %	2 - 4	2.34
RRR, %	≥ 90	94.52

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

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