



CERTIFICATE OF ANALYSIS

Product : **CASTOR OIL**

Grade : **EO-120/V-236**

Shelf Life : **Best before 24 months from the date of manufacturing.**

ITEMS	SPECIFICATION	RESULT
Absorption max determined at the absorption maximum at 269NM +/-NM	Not more than 1	0.89
Characteristics	A clear almost colourless or slightly yellow, viscous, hygroscopic liquid, slightly soluble in light petroleum, miscible with alcohol and with glacial acetic acid.	Pass
Acid value	Not more than 2.0	0.50
Foreign fatty substances		
A. Solution is clear	To 2 ml add 8 ml of alcohol R. Solution is clear	Passes
B. Net 16.0 ml is required	Shake 10 ml with 20 ml of light petroleum. Allow to separate. The lower layer has a volume ≥ 16 ml	Passes
Fatty acid composition by GLC		
Palmitic acid	$\leq 2.0\%$	1.06%
Stearic acid	$\leq 2.5\%$	2.30%
Oleic acid & isomers	2.5 – 6.0%	3.60%
Linoleic acid	2.5 – 7.0%	3.0%
Linolenic acid	$\leq 1.0\%$	0.38%
Eicosenoic acid	$\leq 1.0\%$	0.32%
Ricinosenoic acid	85 – 92%	85%
9-10 Dihydroxy stearic acid	0.3 – 0.7%	0.38%
Any other fatty acid	$\leq 1.0\%$	0.73%
Hydroxyl value	≥ 150	162.3
Iodine value (WIJS)	82 – 90	84.6
Optical rotation	+3.5 - +3.6 Deg	+4.0
Peroxide value	Not more than 10.0	3.23
Refractive index at 200	Of about 1.479	1.478

Relative density at 200	Of about 0.958	Pass
Saponification value	176 – 187	180.8
Unsaponifiable matter	≤0.8%	0.53%
Water	≤0.3%	0.138%

Compiled by:

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