

Certificate of Analysis

(Representative Sample Certificate)

Product Name:	Castor Oil, USP	Lot Number:	Not available (data may vary slightly
			with different lots or batches)
INCI Name:	Ricinus Communis (Castor) Oil	Expiration Date:	36 months from production date
CAS Number:	8001-79-4		

Property	Specification	Analysis
Acid Value	2 KOH/g MAX	0.78 KOH/g
UV Absorption @ 270nm	0.7 - 1.5Abs	0.961 Abs
Water determination	0.3%	0.18%
Hydroxyl Value	160 - 168 KOH/g	163.08 KOH/g
Peroxide Value	10 meq/kg MAX	0.00 meq/kg
Unsaponificable matter	0.8%	0.36%
Distinction	Partially soluble in solvent hexane. Yields a clear liquid with an equal volume of alcohol.	Conforms
Fatty Acid Profile (Area%)		
C:16:0 Palmitic	2.0% MAX	1.40%
C:18:0 Stearic	2.5% MAX	1.23%
C:18:1 Oleic	2.5 - 6.0%	3.54%
C:18:2 Linoleic	2.5 - 7.0%	6.13%
C:18:3 Linolenic	1.0% MAX	0.57%
C:20:1 Eicosenic	1.0% MAX	0.32%
Ricinoleic Acid	85.0 - 92.0	88.54
cis-11-Octadecenoic or	1.0% MAX	0.98%
other unidentified		
Trygliceride Composition	1	
RRR	90.0% MIN	90.84%

Disclaimer: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy themself as to the suitableness & completeness of such information for their own particular use.

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RRL	2.0 - 4.0%	3.98%
RRO	2.5 - 5.0%	4.50%
RRS	0.2 - 0.8%	0.68%

"Certified in compliance with the terms of the US-Canada Organic Equivalency Arrangement. The above data was obtained using the test indicated and is subject to the deviation inherent in the test method. Results may vary under other test methods or conditions. This report is not to be signed. All data are as per our supplier.

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