



TKB TRADING, LLC  
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**Certificate of Analysis**  
**(Representative Sample Certificate)**

**CASTOR OIL - USP**

Lot Number: Not available (data may vary slightly with different lots or batches)  
Date of Production: Not available  
Expiration Date: Not available

Parameter	Units	Limits		Results
		Min	Max	
Free Fatty Acid Value	%		1.5	0.25
Saponification Value		176	185	180.44
Hydroxyl Value		160	168	163.72
Iodine Value	gI2/100g	82	90	85.59
Specific Gravity @ 20°C	g/ml			0.9625
Heavy Metals	%		0.001	<0.001
Distinction				Conforms
				Partly soluble in solvent hexane. Yields a clear liquid with an equal volume of alcohol.

Shelf life is guaranteed for three years from the date of production if 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 potency. Although TKB Trading, LLC believes the above information to be accurate based on the information available to TKB, it is the responsibility of the customer and user of the material to perform its own investigation and due diligence prior to use to verify that the product purchased from TKB meets their quality requirements and is appropriate for the use to which the product is to be put. The information provided above shall be considered effective only for the lot with which the information is being provided. Use and purchase of this material is subject to TKB Trading, LLC standard terms and conditions, which supersede any conflicting terms contained on Buyer's purchase order or any document or instrument supplied by Buyer.