

Product CASTOR OIL, USP

LOT # 10857

Manufacturing Date 08/2021
Shelf Life 3 years

Properties	Specifications	Results	
Free Fatty Acid Value	≤ 1.5	0.515	
Saponification Value	176 – 185	180.28	
Hydroxyl Value	160 – 168	165.27	
Iodine Value	82 – 90	84.66	
Specific Gravity @30°C		0.9592	
Heavy metals	≤ 0.001	0.0	
Distinction		Conform	



Product CASTOR OIL, USP
LOT # COUSP/07/21
Date of Production 07/2021
Shelf Life 3 years

Properties	Specifications	Results
Distinction	Partly soluble in solvent hexane. Yields a clear liquid with an equal volume of alcohol.	Conforms
Free Fatty Acid Value	Max 1.5	0.445
Saponification Value	176 – 185	181.47
Hydroxyl Value	160 – 168	166.61
Iodine Value	82 – 90	84.95
Specific Gravity @ 30°C		0.955
Heavy Metals	Max 0.001	ND



Product CASTOR OIL, USP LOT # COUSP/04/21
Shelf Life 3 years

Properties	Specifications	Results
Distinction	Partly soluble in solvent hexane. Yields a clear liquid with an equal volume of alcohol.	Conforms
Free Fatty Acid Value	Max 1.5	0.34
Saponification Value	176 – 185	178.43
Hydroxyl Value	160 – 168	163.11
Iodine Value	82 – 90	86.12
Specific Gravity @ 30°C		0.9580
Heavy Metals	Max 0.001	0.0



Product CASTOR OIL, USP LOT # COUSP/08/20 Shelf Life 3 years

Properties	Specifications	Results
Free Fatty Acid	1.5 Max	0.325
Saponification Value	176 – 185	176.80
Hydroxyl Value	160 – 168	161.22
Iodine Value	82 – 90	82.39
Specific Gravity @30°C		0.9730
Heavy metals	0.001 Max	0.0
Distinction	Partly soluble in solvent hexane.	Comforms
	Yields a clear liquid with an equal	
	volume of alcohol.	



Product CASTOR OIL, USP

**LOT #** 1136116 **Shelf Life** 2 years

Specifications	Results	
Typical	Typical	
160 – 168	161.130	
0.957 – 0.961	0.958	
0.0 - 2.0	0.76	
0.0 - 0.80	0.3800	
0 – 10	2.04	
0.0 - 2.0	1.30	
0.0 - 2.5	1.29	
2.5 - 6.0	4.56	
2.5 – 7.0	4.63	
0.0 – 1.0	0.51	
0 – 1	0.18	
85 – 92	87.03	
0 - 0.3	0.190	
0.7 – 1.5	1.12	
	Typical 160 - 168 0.957 - 0.961 0.0 - 2.0 0.0 - 0.80 0 - 10 0.0 - 2.0 0.0 - 2.5 2.5 - 6.0 2.5 - 7.0 0.0 - 1.0 0 - 1 85 - 92 0 - 0.3	TypicalTypical $160 - 168$ $161.130$ $0.957 - 0.961$ $0.958$ $0.0 - 2.0$ $0.76$ $0.0 - 0.80$ $0.3800$ $0 - 10$ $2.04$ $0.0 - 2.0$ $1.30$ $0.0 - 2.5$ $1.29$ $2.5 - 6.0$ $4.56$ $2.5 - 7.0$ $4.63$ $0.0 - 1.0$ $0.51$ $0 - 1$ $0.18$ $85 - 92$ $87.03$ $0 - 0.3$ $0.190$



Product CASTOR OIL, USP

LOT # 10729 Shelf Life 3 years

Properties	Specifications	Results
Free Fatty Acid	1.5 Max	0.26
Saponification Value	176 – 185	180.29
Hydroxyl Value	160 – 168	167.71
Iodine Value	82 – 90	85.30
Specific Gravity @30°C		0.9590
Heavy metals	0.001 Max	0.0
Distinction	Partly soluble in solvent hexane.	Comforms
	Yields a clear liquid with an equal	
	volume of alcohol.	



Product CASTOR OIL, USP LOT # PH/38/E/20 Shelf Life 2 years

Properties	Specifications	Results
	·	
Distinction from most other	It is only slightly soluble in	Pass
fixed oils	solvent hexane, Yields a clear	
	liquid with an equal volume of alcohol.	
Identification, UV absorption	0.7 – 1.5	1.14
Fats and fixed oils (AV)	NMT 2.0	0.68
Hydroxyl Value	160 – 168	161.42
Peroxide value	NMT 10.0	2.15
Unsaponifiable matter	NMT 0.8	0.39
Water	NMT 0.3	0.21
Specific Gravity @25°C	0.957 – 0.961	0.958
Triglyceride Composition		
RRR	≥ 90	Conforms
RRL	2.0 - 4.0	Conforms
RRO	2.5 - 5.0	Conforms
RRS	0.2 - 0.8	Conforms
Fatty Acid Composition		
Palmitic Acid (C16:0)	< 2.0	1.28
Stearic Acid (C18:0)	< 2.5	1.34
Oleic Acid (C18:1)	2.5 - 6.0	4.43
Linoleic Acid (C18:2)	2.5 – 7.0	4.64
Linolenic Acid (C18:3)	< 1.0	0.48
Cis-11-Eicosenoic Acid (C20:1)	< 1.0	0.16
Ricinoleic Acid	85 – 92	87.14
Cis-11-Octadecenoic acid or	< 1.0	0.53
other unidentified fatty acid		



Product CASTOR OIL, USP LOT # PH/13/C/20 Shelf Life 2 years

Properties	Specifications	Results
Acid value	≤ 2.0	0.86
Unsaponifiable matter	≤ 0.8	0.36
Peroxide value	≤ 10	1.71
Water By KF	≤ 3	0.14
Ultraviolet Absorbance	0.7 – 1.5	268 nm=1.325
(Specific Absorption)		269 nm =1.336
		270nm =1.313
Fatty Acid Composition		
Palmitic Acid (C16:0)	≤ 2	1.05
Stearic Acid (C18:0)	≤ 2.5	1.26
Oleic Acid (C18:1)	2.5 - 6.0	3.42
Linoleic Acid (C18:2)	2.5 – 7.0	4.38
Linolenic Acid (C18:3)	≤10	0.54
Cis-11-Eicosenoic Acid (C20:1)	≤1.0	0.26
Ricinoleic Acid	85 – 92	88.46
Others	≤1.0	0.63



Product CASTOR OIL, USP

**Lot #** 1121109 **Shelf Life** 2 years

Properties	Specifications	Results	
Flavor/Aroma	Typical	Complies	
Acid Value MG KOH/G	0 – 2	0.88	
Unsaponifiable matter	0.0 - 0.80	0	
Peroxide Value (MEQ/KG)	0 - 10	2.40	
Palmitic Acid C 16:0	0.0 - 2.0	1.22	
Stearic Acid C18:0	0.0 - 2.5	1.48	
Oleic Acid C18:1	2.5 - 6.0	4.65	
Linoleic Acid C18:2	2.5 - 7.0	5.32	
Linolenic Acid C18:3	0.0 - 1.0	0.57	
Eicosenoic Acid C20:1	0 - 1	0.30	
Ricinoleic Acid	85 - 92	87.18	
Moisture Content	0 - 0.3	0.110	
Uv Absorption	0.7 – 1.5	1.126	