

PRODUCT SPECIFICATION
71906-03

VERTELLUS TRADE NAME: Crystal® LC-USP

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CHEMICAL NAME: Castor Oil

REVISION DATE: 6/20/05

ITEM CODE: ALL STARTING WITH 71906

REVISION: 03

SPECIFICATION

TEST METHOD

1.	Saponification Value	176 - 182	CC 540 / CC 415
2.	Acid Value	1.5 Maximum	CC 408
3.	Iodine Value	84 - 88	CC 421
4.	Color, Gardner	2 Maximum	CC 401
5.	Hydroxyl Value	160 - 168	CC 540 / CC 420
6.	Specific Gravity @ 25°C	0.957 - 0.961	CC 429
7.	Distinction from most other fixed oils	Passes Test	USP
8.	Heavy Metals, %	0.001 Maximum	USP
9.	Free Fatty Acids	Passes Test	USP
10.	ml 0.1 N NaOH / 10g	3.5 Maximum	CC 408
11.	Appearance	Clear, viscous liquid. Substantially free of foreign matter.	
12.	Moisture Content	0.25 maximum	CC 434

This is to certify that this material is in accordance with the requirements of the latest United States Pharmacopeia.

Gardner-Holdt Viscosity: typically U-V