



Mohanty Pty Ltd

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Certificate of Analysis

Product: FSG Castor Oil

Sr. No.	Parameters	Test Method	Specification	Units	Results
1	Free Fatty Acid	AOCS Ca 5a-40 (RA-2017)	1 pct max	pct	0.81
2	Moisture and Volatile Matter	AOCS Ca 2c-25 (RA-2017)	0.25 pct max	pct	0.12
3	Insoluble Impurities	AOCS Ca 3a-46 (RA-2017)	0.02 pct max	pct	<0.01
4	Iodine Value	AOCS Cd 1d-92 (RA-2017)	82-90	gm I2/100 gm	85.31
5	Saponification Value	AOCS Cd 3 -25 (RA-2017)	177-187	mg KOH/gm	180.24
6	Acetyl Value	AOCS Cd 13 -60 (RA-2017)	140 min	mg KOH/gm	146.84
7	Colour in 5 1/4" Lovibond Scale	AOCS Cc 13e -92 (RA-2017)	20 Yellow, 2.0 Red max	yellow, red	17.1 1.7
8	Hydroxyl Value	By GC	160-168	mg KOH/gm	165.01
9	Relative density 15/15.5 DC	AOCS Cc 10c -95 (RA-2017)	0.958-0.969		0.9624
10	Acid Value	AOCS Cd 3d -63 (RA-2017)	2.00 max	mg KOH/gm	1.61
11	Refractive Index	AOCS Cc 7 -25 (RA-2017)	1.477-1.481		1.4788
12	Unsaponifiable Matter	AOCS Ca 6a -40 (RA-2017)	1 Pct max	pct	0.37
13	Ricinoleic Acid	ISO 5508/12966-2	85 pct min	% by area	87.77