

# BOMAR

## CERTIFICATE OF ANALYSIS

Product Name: Organic Castor Oil

Production Date: AUG 2022.

Expiry Date: AUG 2024.

Bomar Batch: R0667 (Batch Number: AIPN/OCO/22/043)

Parameter	Specifications	RESULT
Refractive Index at 20°C	1.476-1.479	1.4770
Appearance	Almost colourless or slightly yellow,viscous hygroscopic liquid	Pale Yellow Viscous liquid
Odor	Odorless	Odorless
FFA(as oleic)	0.40% Max	0.19
Acid Value(mg KOH/gm)	0.80 Max	0.38
Iodine value(Wij's),(gm I <sub>2</sub> /100 gm)	82-90	85.38
Saponification Value(mg KOH/gm)	177-185	180.42
Hydroxyl Value(mg KOH/gm)	160 Min	164.32
Specific Gravity@20°C	0.954-0.960	0.9596
Unsaponifiable matter %	0.80 Max	0.36
Specific Absorbance(At 270 NM)	1.0 Max	0.189
Optical Rotation	+3.5 - +6.0	+4.0
Moisture by KF	0.20 Max	0.09
Colour,GARDNER	1G Max	<1G
Peroxide Value(meq/1000gm)	5.0 Max	1.11

### HEAVY METALS:

1	Mercury	1 mg/kg	LOQ
2	Cadmium	1 mg/kg	LOQ
3	Arsenic	1 mg/kg	LOQ
4	Lead	1 mg/kg	LOQ

NOTE: LOQ stands for Limit of Quantification.

**FATTY ACID COMPOSITION:**

1	16:0 Palmitic Acid	Max 2.0	1.12
2	18:0 Stearic Acid	Max 2.5	1.20
3	18:1 Oleic Acid & Isomers	2.5-6.0	3.58
4	18:2 Linoleic Acid	2.5-7.0	4.39
5	18:3 Linolenic Acid	Max 1.0	0.36
6	20:1 Eicosenoic Acid	Max 1.0	0.28
7	Ricinoleic Acid	85.0-92.0	88.69
8	Any Other Fatty Acid	Max 1.0	0.38