

CERTIFICATE OF ANALYSIS
BLACK CASTOR OIL

BASIC INFORMATION

1	Name of Product	Black Castor oil
2	Color	Brown Colored
3	Description	Castor seeds are Roasted, Making pulp by, Adding water, Heating to Remove oil, Separation of oil, Collection of oil
4	Botanical Name	Ricinum Communis
5	Lot. No./Batch Qty./Date	EEC-2023-JBC04, 1000 Kg, 20/10/2023
6	Shelf life	36 Months Store in cool and dry place

ANALYTIC INFORMATION

NO.	PARAMETER	UNIT	RESULT	METHOD
<u>PHYSICAL/CHEMICAL ANALYSIS</u>				
1.	Appearance @ 30°C	Brown Colored Liquid	Complies	Visual
2	Moisture(K.F)	%	0.05	IS:1797-1985 RA2003
3	F.F.A. (as Oleic Acid)	%	0.23	AOAC(#996.06)
4	Acid Value	%	0.60	Tapped Method
5	Iodine Value	%	82	AOAC(#920.212)
6.	Saponification Value	%	183	AOAC(#920.16)
7.	Hydroxyl value	%	152	AOAC(#965.32)
8.	Specific gravity@30'c	g/ml	0.91	Tapped Method
9.	Unsaponifiable matter	%	0.41	AOAC(#920.212)
10.	Peroxide Value	%	2%	AOAC (#942.27)
<u>MICROBIOLOGICAL ANALYSIS</u>				
1.	Salmonella	Cfu/gm	Absent/25 gm	ISO 6579:2007
2.	Total Plate Count	Cfu/gm	<10	IS:4833:2003
3.	Yeast and Moulds	Cfu/gm	<10	IS:14648:2005
4.	E-Coli	Cfu/gm	Absent/25 gm	BAM:USFDA:CHAPTER 4
<u>HEAVY METAL ANALYSIS</u>				
1.	Arsenic	mg/kg	BLQ	ICP-MS
2	Lead	mg/kg	BLQ	ICP-MS
3	Cadmium	mg/kg	BLQ	ICP-MS
4	Mercury	mg/kg	BLQ	ICP-MS