

## Certificate of Analysis

Product: Grape seed oil

Botanical Name: *Vitis vinifera*

Parameters	Specifications	Results
Description	Yellowish to green oily liquid, almost odourless and characteristic bland taste.	Pass test
Identification	Complies with the standard.	Pass test
Solubility	Slightly soluble in ethanol 96%. Soluble in chloroform and ether. Insoluble in water.	Pass test
Hydroxyl Value	max. 5.0	< 5.0
Iodine Value	130 – 150.0	131.8
Density	0.910 – 0.922	0.917
Refractive Index at 20°C	1.473 – 1.478	1.474
Acid Value	max. 0.6	0.1
Paroxide Value (meq/kg at time of pack, 20°C) (PE2.5.6)	max. 10	2.0
Saponification Value	186.0 – 203.0	190
Unsaponifiable matter	< 1%	< 1.0
Heavy Metals	max. 20 ppm	< 20
Arsenic	max. 2 ppm	< 2
CHROMATOGRAPHY:	FATTY ACID FRACTION:	
Palmitic acid	6.0 – 8.0%	6.8
Palmitoleic acid	max. 0.5	0.1
Stearic acid	3.0% - 6.0%	3.8
Oleic acid	12.0% - 27.0%	24.4
Linoleic acid	60.0% - 76.0%	64.0
Linolenic acid	max. 0.5%	0.2
Arachidic acid	max. 0.6%	0.2