

CERTIFICATE OF ANALYSIS

Product Name	βeta-Carotene Oil
Batch Number:	TX4432178
Expiration Date:	January 2029

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Item of Analysis	Specification	Results	Test Methods
Assay Beta-Carotene	≥30%	32.74%	UV
Assay Beta-Carotene	≥30%	33.11%	HPLC
Organoleptic			
Appearance	Liquid	Conforms	Visual
Color	Reddish- Reddish pigment liquid	Conforms	Visual
Odor	Characteristic	Conforms	CP2010
Physical Characteristics			
Maximum absorption	453~457 nm	455 nm	UV
A340nm	≤0.080	0.032	UV
Retention time	Conforms to the reference solution	Conform	HPLC
Bulk Density	45-60g/100mL	49g/100mL	CP2010IA
Residue of Solvents	None	Conform	NLS-QCS-1007
Pesticide Residues	1ppm NMT	0.26 ppm	Gas Chromatography
Non Irradiation	≤700	Conform	EN 13751:2002
Heavy metals			
Total Heavy Metals	10ppm Max	Conform	USP<231>method II
Lead (Pb)	2ppm NMT	Conform	USP<211>
Arsenic (As)	1ppm NMT	Conform	USP<211>
Cadmium (Cd)	1ppm NMT	Conform	USP<211>

Mercury (Hg)	0.5ppm NMT	Conform	USP<211>
Microbiological Tests			
Total Plate Count	1000cfu/g Max	<10 cfu/g	USPPh.Eur.2.6.1
Yeast & Mold	100cfu/g Max	<10 cfu/g	USPPh.Eur.2.6.1
E. Coli.	Negative	Conform	USPPh.Eur.2.6.1
Salmonella	Negative	Conform	USPPh.Eur.2.6.1
Staphylococcus	Negative	Conform	USPPh.Eur.2.6.1

This report is not to be signed.

All data are as per our supplier.

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