



CERTIFICATE OF ANALYSIS

Product Name	βeta-Carotene Oil
Batch Number:	Check product package
Expiration Date:	December 2027

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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.

Disclaimer: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy themselves as to the suitability & completeness of such information for their own particular use.

www.sophixnatural.com

PLOT 9, ZONE A, LIGUORI STREET OKE OMI OFF KUKUMODA, NATIONAL BUS STOP, NEW IFE ROAD, IBADAN
Phone 07061111838, 08039513992 sophixnatural@gmail.com