

## **CERTIFICATE OF ANALYSIS**

<b>Product Name</b>	β-Carotene Oil
<b>Lot Number:</b>	Not available (data may vary slightly with different lots or batches)
<b>Expiration Date:</b>	24 months from production date
<b>Storage:</b>	Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat

Item of Analysis	Specification	Results	Test Methods
Assay Beta-Carotene	≥30%	32.74%	UV
Assay Beta-Carotene	≥30%	33.11%	HPLC
<b>Organoleptic</b>			
Appearance	Liquid	Conforms	Visual
Color	Reddish- brown liquid	Conforms	Visual
Odor	Characteristic	Conforms	CP2010
<b>Physical Characteristics</b>			
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
<b>Heavy metals</b>			
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>
<b>Microbiological Tests</b>			
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

“Certified in compliance with the terms of the US-Canada Organic Equivalency Arrangement. The above data was obtained using the test indicated and is subject to the deviation inherent in the test method. Results may vary under other test methods or conditions.

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.

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