

Certificate of Analysis

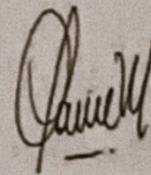
Product Name :	NatAxtin Oil 10%	Batch Number :	NOL240210A1
Description :	Oleoresin from <i>H. pluvialis</i> , Supercritical CO ₂ extracted. Standardized with Extra Virgin Olive Oil.	Production Date :	04/03/2024 (dd/mm/yyyy)
Country of Origin :	Chile	Retest Date :	04/03/2028 (dd/mm/yyyy)

ANALYSIS	SPECIFICATION	TEST RESULTS
Physical Appearance and Solubility	Dark red viscous oleoresin with characteristic odor and flavor. Insoluble in water, soluble in oils and non-polar solvents.	Complies
Total Astaxanthin * (1)	≥ 10 %	10.30 %
Astaxanthin Esters	≥ 9.5 %	10.00 %
Astaxanthin Free	≤ 0.5 %	0.30 %
Moisture (2)	< 1.0 %	< 0.5 %
Heavy Metals		
Lead (3)	< 0.1 mg/Kg	< 0.05 mg/Kg
Cadmium (3)	< 0.1 mg/Kg	< 0.01 mg/Kg
Mercury (3)	< 0.1 mg/Kg	< 0.005 mg/Kg
Arsenic (Total) (3)	< 2.0 mg/Kg	1.70 mg/Kg
Arsenic (Inorganic) (4)	< 1.0 mg/Kg	< 0.1 mg/Kg
Microbiological		
Aerobic Total Count (5)	< 10 cfu/g	< 10 cfu/g
Yeast and Mould (6)	< 10 cfu/g	< 10 cfu/g
Total Coliforms (7)	< 10 cfu/g	< 10 cfu/g
<i>Escherichia coli</i> (8)	Negative/g	Complies
<i>Salmonella</i> (9)	Negative/25 g	Complies
<i>Staphylococcus aureus</i> (10)	Negative/g	Complies
Pesticides (11)	Negative	Complies

Methods: (1) HPLC / Spectrophotometry UV-Vis, Internal Method; (2) Karl Fischer; (3) ICP-MS, DIN EN 15763:2010 (2010-04), mod.; (4) HG-AAS, §64 LFGB L 25.06-1 (2008-12), mod.; (5) AOAC 966.23; (6) FDA BAM Chapter 18; (7) AOAC 991.14; (8) BAM Chapter 4; (9) AOAC-RI 121501; (10) BAM Chapter 12; (11) GC-MS/MS/LC-MS/MS. (*) Total weight basis.

Report Date: May 22, 2024

Authorized by:



Carolina Jaime
 QC/QA Manager

V06.19

NOTE: This information does not release the client from ensuring compliance with the specification upon receipt of these goods.