

QUALITY SPECIFICATION

Astaxanthin

Catalog No.: NST-10-191

CAS No.: 472-61-7

Molecular formula: C₄₀H₅₂O₄

MW: 596.84

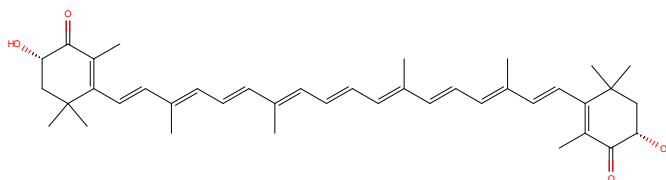
Source: *Haematococcus pluvialis*

Part used: seaweed

Solvent used: water & ethanol

Extract ratio: 50:1*

*Variable indicative ratio depending on production and/or variability of the raw material. Non contractual data.



No.	Parameter	Specification	Method
1.	Appearance	Fine powder	Visual
2.	Color	Red brown	Visual
3.	Identification	Conforms	TLC
4.	Assay	≥5.0%	UV
5.	Odor	Characteristic	Organoleptic
6.	Taste	Characteristic	Organoleptic
7.	Sulfated ash	≤5.0 %	Ph.Eur. 2.4.16
8.	Loss on drying	≤5.0 %	Ph.Eur. 2.8.17
9.	Mesh size/sieve	NLT 95% pass 80 mesh	80 mesh

10.	Bulk density	NMT 0.8 g/ml	Density meter
11.	Pesticide residues	EC 396/2005	Third lab
12.	Ethylene oxide	EC 396/2005	HACCP
13.	BAP	EC 1881/2006	HPLC
14.	PAH4	EC 1881/2006	HPLC
15.	Residual solvents	Ph. Eur. 2.4.24	Ph. Eur. 2.4.24
16.	Heavy Metals	≤10 ppm	ICP-MS
17.	Lead	≤2 ppm	ICP-MS
18.	Arsenic	≤1 ppm	ICP-MS
19.	Mercury	≤0.1 ppm	ICP-MS
20.	Cadmium	≤1 ppm	ICP-MS
21.	TPC	Not more than 10 ³ CFU/g	ISO 6579:2002
22.	TYMC	Not more than 10 ² CFU/g	ISO 6579:2002
23.	<i>Escherichia Coli</i>	Absent	ISO 6579:2002
24.	<i>Salmonella</i>	Absent	ISO 6579:2002
25.	<i>Staphylococcus aureus</i>	Absent	ISO 6579:2002

Storage: store in a cool & dry place, keep away from strong light and heat

Stability: 24 months when properly stored