

QUALITY SPECIFICATION

Astaxanthin

Catalog No.: NST-10-191

CAS No.: 472-61-7

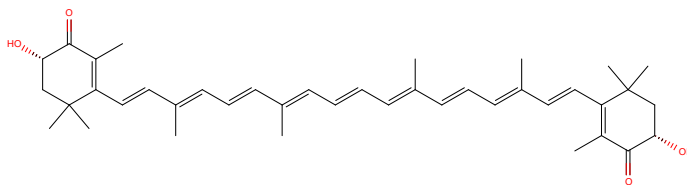
Molecular formula: C₄₀H₅₂O₄

MW: 596.84

Botanical name: *Haematococcus
pluvialis*

Part used: whole plant

Shelf life: 2 years



No.	Parameter	Specification	Method
1.	Appearance	Fine powder	Visual
2.	Color	Reddish brown	Visual
3.	Identification	Conforms	TLC
4.	Assay	≥5.0 %	UV
5.	Odor	Characteristic	Organoleptic
6.	Taste	Characteristic	Organoleptic
7.	Mesh size/sieve	≥95% pass 80 mesh	80 mesh
8.	Bulk density	≤0.8 g/ml	Density meter
9.	Residue on ignition	≤5.0 %	Ph. Eur. 2.4.14
10.	Loss on drying	≤5.0 %	Ph. Eur. 2.8.17
11.	Pesticide residues	EC 396/2005	Third lab
12.	Solvent residues	≤5000 ppm	GC
13.	Benzo[a]pyrene	<10 ppb	HPLC

14.	Sum of PAHs	<50 ppb	HPLC
15.	Heavy Metals	≤10 ppm	ICP-MS
16.	Lead	≤2 ppm	ICP-MS
17.	Arsenic	≤1 ppm	ICP-MS
18.	Mercury	≤0.1 ppm	ICP-MS
19.	Cadmium	≤1 ppm	ICP-MS
20.	TPC	<10 ³ CFU/g	AOAC,BAM
21.	TYMC	<10 ² CFU/g	AOAC,BAM
22.	<i>Escherichia Coli</i>	Absent	AOAC,BAM
23.	<i>Salmonella</i>	Absent	AOAC,BAM
24.	<i>Staphylococcus aureus</i>	Absent	AOAC,BAM

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

Stability: 24 months when properly stored