

CERTIFICATE OF ANALYSIS

Product Name	Astaxanthin Oil	Latin Name	<i>Haematococcus pluvialis</i>
Batch No	PY-AS20190320	Used Part	Whole
Quantity	200KG	Analysis Date	Mar.22, 2019
Mfg. Date	Mar.20, 2019	Exp. Date	Mar.19, 2021

No.	Item	Specification	Result
1.	Characteristic	Dark red oily viscous liquid	Complies
2.	Odor & Taste	No burnt, rancid, or peculiar smell	Complies
3.	Impurities	No visible impurities	Complies
4.	Assay (by UV)	Astaxanthin $\geq$ 10.00%	10.21%
5.	Assay (by HPLC)	Astaxanthin $\geq$ 8.00%	8.17%
6.	Moisture	$\leq$ 5.0%	0.08%
7.	Ash	$\leq$ 5.0%	0.05%
8.	Pb	$\leq$ 1.0mg/kg	Negative
9.	As	$\leq$ 1.0mg/kg	0.63mg/kg
10.	Cd	$\leq$ 1.0mg/kg	0.007mg/kg
11.	Hg	$\leq$ 0.1mg/kg	Negative
12.	Total Plate Count	$\leq$ 30,000cfu/g	140cfu/g
13.	Coliforms	$\leq$ 0.92MPN/g	Negative
14.	Yeasts & Molds	$\leq$ 50cfu/g	<50cfu/g
15.	Salmonella	Negative	Negative
16.	Shigella	Negative	Negative
17.	Staphylococcus Aureus	Negative	Negative

Store in a dry and cool place, protected from light, heat and oxygen. The storage temperature is below 10°C.

Packaged in 5kg net aluminum tin under nitrogen.

Two years in the original package. It is recommended to use the entire content after opening.

Analyst: xuli

QC: lixiaochen