

CERTIFICATE OF ANALYSIS

Product Name	Astaxanthin Powder (CWS)	Latin Name	<i>Haematococcus pluvialis</i>
Batch No	PY-AS20190317	Analysis Date	Mar.20,2019
Quantity	50KG	Exp. Date	Mar.16,2021
Mfg. Date	Mar.17,2019	Shelf Life	2 Years

No.	Item	Specification	Result
1.	Appearance	Dark red, free-flowing powder	Complies
2.	Odor & Taste	No corruption and other peculiar smell	Complies
3.	Impurities	No visible impurities	Complies
4.	Assay (by HPLC)	Astaxanthin $\geq$ 2.0%	2.12%
5.	Loss on Drying	$\leq$ 10.0%	3.64%
6.	Bulk Density (g/mL)	0.40–0.80	0.62
7.	Particle Size	95% through 40 mesh	Complies
8.	Ash	$\leq$ 15.0%	1.2%
9.	Pb	$\leq$ 1ppm	<0.01ppm
10.	As	$\leq$ 1ppm	0.48ppm
11.	Cd	$\leq$ 1ppm	<0.01ppm
12.	Hg	$\leq$ 0.1ppm	0.0122ppm
13.	Total Plate Count	$\leq$ 30,000cfu/g	<30,000cfu/g
14.	Coliforms	$\leq$ 0.92MPN/g	<0.92MPN/g
15.	Yeasts & Molds	$\leq$ 25cfu/g	<25cfu/g
16.	Salmonella	Negative	Negative
17.	Shigella	Negative	Negative
18.	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 foil bag under nitrogen, five bags per cardboard drum.

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

Analyst: xuli

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