

CERTIFICATE OF ANALYSIS

Product Name	Astaxanthin	Batch No	PY-AS20190317
Mfg. Date	Mar.17,2019	Analysis Date	Mar.20,2019
Quantity	400Kg	Exp. Date	Mar.16,2021
Package	25KG/Drum	Shelf Life	2 Years

No.	Item	Specification	Result
1.	Appearance	Dark-red powder	Complies
2.	Odor & Taste	No coke, corruption and other peculiar smell	Complies
3.	Assay (by HPLC)	Astaxanthin \geq 3%	3.12%
4.	Loss on Drying	\leq 5.0%	3.54%
5.	Ash	\leq 5.0%	2.22%
6.	Particle Size	100% pass 60 mesh	Complies
7.	Heavy Metals	\leq 10ppm	Complies
8.	Pb	\leq 3ppm	Complies
9.	As	\leq 1ppm	Complies
10.	Cd	\leq 1ppm	Complies
11.	Hg	\leq 0.1ppm	Complies
12.	Total Plate Count	\leq 1,000cfu/g	<1,000cfu/g
13.	Yeasts & Molds	\leq 100cfu/g	<100cfu/g
14.	Salmonella	Negative	Negative
15.	Shigella	Negative	Negative

Store in well-closed package under the cool and dry condition. Avoid the light, heat and oxygen.

Conclusion: Conform with specification.

Analyst: xuli

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