

CERTIFICATE OF ANALYSIS

Product Name	Astaxanthin(Antarctic krill oil)	Batch No	PY-KR20200519
Quantity	1000KG	Analysis Date	May.22,2020
Mfg. Date	May.19,2020	Exp. Date	May.18,2022

No.	Item	Specification	Result
1.	Appearance	Dark red viscous oil	Complies
2.	Taste and Smell	Krill oil inherent taste and smell,no odd smell	Complies
3.	Impurity	No visible impurity	Complies
4.	Assay(by UV)	Astaxanthin $\geq$ 200ppm	696ppm
5.	Moisture	$\leq$ 5.0%	1.22%
6.	Total Phospholipids	$\geq$ 42%	42.6%
7.	EPA	$\geq$ 12%	14.0%
8.	DHA	$\geq$ 7.0%	8.5%
9.	Peroxide value	$\leq$ 2.0mmol/kg	1.3mmol/kg
10.	Sapovification value	180.0 $\pm$ 10.0mgKOH/g	182mgKOH/g
11.	PCBs	$\leq$ 45ppb	Complies
12.	Dioxins and Furans	$\leq$ 1.0ppt	Complies
13.	Pb	$\leq$ 0.5ppm	Complies
14.	As	$\leq$ 0.5ppm	Complies
15.	Cd	$\leq$ 0.5ppm	Complies
16.	Hg	$\leq$ 0.3ppm	Complies
17.	Cr	$\leq$ 2.0ppm	Complies
18.	Total Plate Count	$\leq$ 1,000cfu/g	<100cfu/g
19.	Coliforms	$\leq$ 100cfu/g	<10cfu/g
20.	Yeasts & Molds	$\leq$ 50cfu/g	Negative
21.	E.Coli	Negative	Negative
22.	Staphylococcus	Negative	Negative
23.	Listeria Monocytogenes	Negative	Negative

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

Others: Please use it immediately after opening.

Conclusion: Conform with specification.

Analyst: xuli

QC: lixiaochen