

Certificate of Analysis

Product Name:	Astaxanthin(Haematococcus pluvialis powder)	Manufacture Date:	Jan. 10 ,2020
Source:	Haematococcus pluvialis	Analysis Date:	Jan. 11 ,2020
Batch Number:	KN200110	Certificate Date:	Jan. 11 ,2020
Batch Quantity:	123kg	Expiration Date	Jan. 09 ,2022

Test	Specifications	Result
Assay by HPLC:	$\geq 5.0\%$	5.43%
Appearance:	Dark violet red powder	Complies
Odor & taste:	Odorless with slight seaweed flavor.	Complies
Mesh size:	100% pass 80mesh	Complies
Ash:	$\leq 10.0\%$	$\leq 5.0\%$
Bulk density:	40-60g/100mL	47g/100mL
Tamped density:	60-90g/100mL	69g/100mL
Loss on drying %:	$\leq 10.0\%$	3.2%
Heavy metals PPM:	<20ppm	Complies
Pb	$\leq 3.0\text{mg/kg}$	0.1720mg/kg
As	$\leq 2.0\text{mg/kg}$	0.3501mg/kg
Cd	$\leq 1.0\text{mg/kg}$	0.0218mg/kg
Microbiology:		
Total Plate Count:	<1000cfu/g	Complies
Yeast & Mold:	<100cfu/g	Negative
E.Coli:	Negative	Complies
S. Aureus:	Negative	Complies
Salmonella:	Negative	Complies
Conclusion:	Conform with Enterprise Standard	
Packing description:	Sealed export grade drum & double of sealed plastic bag	
Storage:	Store in 20°C cool & dry place not freeze., keep away from strong light and heat	
Shelf life:	2 years when properly stored	



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