

Certificate of Analysis

Product Name	AstaReal® P25HB		
Description	Natural Astaxanthin Powder	Date of Manufacturing	April 24, 2017
Lot Number	704003	Date of Expiry	April 23, 2019
Country of Origin	Japan		
Storage Condition	Store in an air tight sealed container, at or lower than 10°C (50°F). Avoid direct sunlight, exposure to air or strong oxidizers.		

Analysis	Specification	Method	Result
Appearance	Red Powder	Visual Inspection	Complies
Lead	Less than 0.5 ppm	Atomic absorption spectrophotometry**	< 0.05 ppm
Arsenic	Less than 2 ppm	Atomic absorption spectrophotometry**	< 0.1 ppm
Cadmium	Less than 1 ppm	Atomic absorption spectrophotometry**	< 0.01 ppm
Mercury	Less than 1 ppm	Atomic absorption spectrophotometry**	< 0.01 ppm
Standard Plate Count	Less than 3,000 cfu/g	Standard agar plate**, 35 °C, 48 hours	< 10 cfu/g
Mold/Yeast	Less than 300 cfu/g	Potato dextrose agar plate*, 20~25 °C, 5 days	< 10 cfu/g
<i>Staphylococcus</i>	Negative/g	JP*** 4.05., Biological Limit Test 3.5	Negative/g
<i>Salmonella</i>	Negative/g	JP*** 4.05., Biological Limit Test 3.3	Negative/g
Coliforms	Negative/g	BGLB method**	Negative/g
Loss on Drying	Less than 5 %	105 °C, 2 hours*	1.4 %
Astaxanthin Content	Not less than 2.5 % (As Astaxanthin free form)	In-House (HPLC method)	2.8 %

*: Japanese Standard of Food Additives (8th Edition)

** : Japanese Standard Method of Analysis in Food Safety Regulation

***: Japanese Pharmacopoeia 17th Edition

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AstaReal® P25HB_Ver.01

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