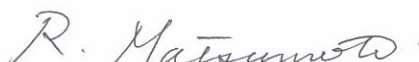


Certificate of Analysis

Product Name	AstaReal® CLEAR100-C(S)		
Description	Water Soluble Natural Astaxanthin Complex	Date of Manufacturing	October 4, 2017
Lot Number	710025	Date of Expiry	October 3, 2019

Analysis	Specification	Result
Appearance	Dark Red Liquid	Complies
Heavy Metals	Less than 20 ppm	< 10 ppm
Arsenic	Less than 2 ppm	< 1.0 ppm
Lead	Less than 1 ppm	< 0.05 ppm
Cadmium	Less than 1 ppm	< 0.01 ppm
Mercury	Less than 1 ppm	< 0.01 ppm
Standard Plate Count	Less than 300 cfu/g	< 10 cfu/g
Mold/Yeast	Less than 100 cfu/g	< 10 cfu/g
<i>Staphylococcus</i>	Negative/g	Negative/g
<i>Salmonella</i>	Negative/g	Negative/g
<i>E.coli</i>	Negative/g	Negative/g*
Astaxanthin Content (HPLC method)	Not less than 1.00 % (As Astaxanthin free form)	1.08 %

*Tested Annually



Ririko Matsumoto, Quality Control Manager, Life Science Division

Date: December 27, 2017

AstaReal® CLEAR100-C(S) Ver.01

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