

Certificate of Analysis

Product Name	Astaxanthin 12mg capsules		
Description	7.5 Oval clear soft gelatin capsules containing dark red oil	Lot number	UC220412
Manufacture date	July 21, 2022	Expiration Date	July 20, 2025

Analysis	Method	Specification	Result
Astaxanthin Content	Internal HPLC method	Not Less than 12.0 mg	14.4 mg/capsule
Average Fill Weight	USP <2091>	400 mg ± 10 %	404 mg
Average Gross Weight	USP <2091>	580 mg ± 10 %	581 mg
Rupture Test	USP <2040>	NMT 15 minutes	2 minutes
Aerobic Plate Count	USP <61>	NMT 3000 cfu/g	10 cfu/g
Total Yeast & Mold	USP <61>	NMT 300 cfu/g	< 10 cfu/g
Total Coliforms	FDA BAM 4	NMT 50 MPN/g	< 10 MPN/g
<i>Salmonella</i> spp.	USP <62>	Negative/10g	Negative/10g
<i>Escherichia coli</i>	USP <62>	Negative/10g	Negative/10g
<i>Pseudomonas aeruginosa</i>	USP <62>	Negative/10g	Negative/10g
<i>Staphylococcus aureus</i>	USP <62>	Negative/10g	Negative/10g
Arsenic	USP <730>	Less than 2 ppm	< 0.010 ppm
Cadmium	USP <730>	Less than 1 ppm	< 0.010 ppm
Lead	USP <730>	Less than 1 ppm	< 0.010 ppm
Mercury	USP <730>	Less than 1 ppm	< 0.005 ppm

Sonya Villegas, Quality Manager
Date: 08/16/2022

