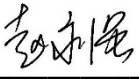




Specification Sheet

<u>Natural Astaxanthin Powder 1.5%</u>		
Item No.:	AX001	
Country of Origin:	P. R. China	
Botanic Name:	<i>Haematococcus pluvialis</i>	
Plant Parts:	Whole plant	
Shelf Life:	Two Years	
Sterilization:	Non-Irradiated/Non-ETO/Treat by Heat Only	
Test		
Assay		
Astaxanthin	≥ 1.5%	HPLC
Physical/Chemical		
Identification	Positive	HPLC/TLC
Appearance	Dark red powder	Visual
Odor	Characteristic	Organoleptic
Powder Size	≥ 95% through 60 mesh	USP #60 Sieve
Bulk Density	0.40 – 0.60 g/mL	USP40-NF35<616>
Loss on Drying	≤ 10.0%	USP40-NF35<731>
Residue on Ignition	≤ 15.0%	USP40-NF35<281>
Heavy Metals		
Total Heavy Metals	≤ 10 µg/g	USP40-NF35<231>
Arsenic (As)	≤ 1.0 µg/g	ICP-MS
Cadmium (Cd)	≤ 1.0 µg/g	ICP-MS
Lead (Pb)	≤ 2.0 µg/g	ICP-MS
Mercury (Hg)	≤ 0.5 µg/g	ICP-MS
Microbiology		
Total Plate Count	≤ 30,000 cfu/g	USP40-NF35<2021>
Molds and Yeasts	≤ 100 cfu/g	USP40-NF35<2021>
Total Coliforms	< 10 cfu/g	USP40-NF35<2021>
<i>Salmonella</i>	Absence	USP40-NF35<2022>
<i>E. Coli</i>	Absence	USP40-NF35<2022>
<i>Staphylococcus aureus</i>	Absence	USP40-NF35<2022>
Quality Approved By: _____ 		Issued Date: 01-01-2018