



u.s. nutra

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Certificate of Analysis

Zanthin® Extract Astaxanthin Complex 10%

Lot 030915HAOR

Product 251901

Manufacture Date: 15 September 2003

Expiration Date: September 2005

Ingredients:

Haematococcus pluvialis algae supercritical CO₂ extract

Parameter	Specification	Result
Description	Dark red viscous oil	Conforms
Odor	Characteristic	Conforms
Assay Carotenoids		
Canthaxanthin		0.03%
β-carotene		0.03%
Lutein		0.07%
Astaxanthin		10.6%
Astaxanthin Complex (Total)*	> 10%	10.7%
Moisture (Karl Fischer)	< 5%	1.1%
Microbiological USP <2021>		
Total Aerobic Microbial Count	< 1000 cfu/g	Conforms
Combined Yeast & Mold	< 100 cfu/g	Conforms
<i>E. coli</i>	Negative	Conforms
<i>Staphylococcus</i>	Negative	Conforms
<i>Salmonella</i> spp.	Negative	Conforms
<i>Pseudomonas</i>	Negative	Conforms

W. Stephen Hill
Technical Services Manager

Last Updated 30 October 2003

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Certificate of Product Compliance

ZANTHIN® 2.5% Astaxanthin Complex Beadlet
Product 251910

ZANTHIN® 2% Astaxanthin Complex Cold Water Dispersible Beadlet
Product 251920

Ingredients:

Astaxanthin complex	Ascorbyl palmitate
Hydrolyzed gelatin	Natural mixed tocopherols
Vegetable oil and oleoresin	Modified corn starch
Sucrose	Water

We confirm the following regarding the Zanthin® Beadlets:

1. Bovine Spongiform Encephalopathy (BSE)

The following statement has been provided by the gelatin manufacturer:

“Although there has not been a confirmed case of BSE found in the United States or Canada, our suppliers are taking all the necessary steps to insure that their products are free of BSE. Namely, they do not use any raw materials coming from animals bred or slaughtered in any countries with known cases of BSE. In addition, they are taking adequate safeguards during their manufacturing process against BSE including treating all products with a final sterilization.”

Non-bovine gelatin Type A (porcine skin) is used for beadlet manufacture, which leads us to be confident that the precautions taken by us and our suppliers are sufficient to insure that our products are free from BSE.

2. Genetically Modified Organisms (GMO)

Based on information gathered by us and our suppliers, we confirm the product is GMO-free.

3. Irradiation

Based on information gathered by us and our suppliers, we confirm the product has not been treated with ionizing radiation.

W. Stephen Hill
Technical Service Manager

January 2003