



Product Specification

ZANTHIN® 2.5% Astaxanthin Complex Beadlet

Product 251910

Ingredient Declaration

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

Physical

Appearance	Reddish-brown beadlets
Odor	Characteristic
Solubility	Insoluble in water. Miscible with oils and non-polar solvents
Particle Size	100% through 20 mesh
Moisture	≤ 8% (Karl Fischer)
Heavy Metals	< 10 ppm (as lead)

Chemical

Astaxanthin Complex	> 2.5% *
Astaxanthin	> 2.3%
Lutein	~ 0.03%
β-Carotene	~ 0.03%
Canthaxanthin	~ 0.03%
Other Carotenoids	~ 0.1%

Microbiological

	USP <61>
Total Plate Count	< 1000 cfu/g
Yeast & Mold	< 100 cfu/g
<i>E. coli</i>	Negative
<i>Salmonella</i>	Negative
<i>S. aureus</i>	Negative
<i>Pseudomonas</i>	Negative

Storage

Conditions	Tightly closed containers in a cold, dry, dark location
Shelf-life	36 months
Packaging	1, 5 or 25 kg lined containers

* Quantified spectrophotometrically against standard [Sigma A9335] in acetone (λ_{max} 478).