



Certificate of Analysis

Vitamin A Palmitate Granular 500,000 IU/g USP

Catalog Number: VA1001
Lot Number: 0627803
CAS Number: 79-81-2 (Pure)
Storage: 15°C – 30°C
Date of Manufacture: April 6, 2017
Retest Period: April 5, 2020

Test	Specification	Result
Appearance	Light yellow free-flowing beadlets	Conforms
Assay	≥ 500,000IU/g	514,100IU/g
Identification	Positive	Conforms
Solubility	Disperses quickly and complete in cold water (10°C), fruit juices, milk, and other liquids; high concentrations may give cloudy dispersions which remain uniform for relatively long periods	Conforms
Moisture (LOD)	≤ 8.0%	1.97%
Heavy Metals (As Pb)	≤ 10ppm	< 0.30ppm
Arsenic	≤ 1ppm	< 0.60ppm
Total Plcate Count	≤ 1,000 cfu/g	< 1,000cfu/g
Yeast & Mold	≤ 50 cfu/g	< 50cfu/g
Coliforms	≤ 40 cfu/g	< 40cfu/g
<i>Salmonella</i>	Negative	Negative
Particle Size	100.0% ≤ 30 mesh ≥ 90% 40 mesh ≤ 15% 100 mesh	100% 94.37% 0.05%
Carrier/other ingredients: Gum Arabic (30%), Sugar (5%), Maltodextrin (22.3%), D,L-α-Tocopherol (3%), Vitamin C Palmitate (0.2%), Sodium Ascorbate (3.5%) This lot meets the specifications for USP39.		

Approved by:

Date: June 28, 2018

John Grubb, PhD
Gojira Fine Chemicals, LLC
Quality Manager
Tel: 440-539-7033 Fax: 888-211-5523
john@gojirafc.com