



Certificate of Analysis


Product Name	Vitamin A Palmitate 1.7M(Toc.)		
Product Code	42000025	Batch No.	EM2110009-170T
Sample Source	Plant 2558	Package	20kg/Drum
Mfg. Date	2021/10/28	Quantity	1200kg
Expiry Date	2023/10/27	Test Standard	EP/USP

Items	Methods	Acceptance Criteria	Results
Appearance	EP/FCC/GB 29943	A light yellow solid or yellow oily liquid	Conform
Identification			
Thin-Layer Chromatography	EP/USP/FCC/GB 29943	Conform	Conform
Color reaction	USP	Conform	Conform
Related substances			
A ₃₀₀ /A ₃₂₆	EP/GB 29943	≤0.60	0.57
A ₃₅₀ /A ₃₂₆	EP/GB 29943	≤0.54	0.52
A ₃₇₀ /A ₃₂₆	EP/GB 29943	≤0.14	0.12
Assay			
Expressed as international units	EP/USP/GB 29943	≥1,700,000IU/g	1,834,000IU/g
Expressed as retinol activity equivalents	EP/USP/GB 29943	≥510,000mcg RAE/g	550,255mcg RAE/g
Acid Value	EP/GB 29943	≤2.0mg/g	0.35mg/g
Peroxide Value	EP/GB 29943	≤10.0mcq/kg	5.8mcq/kg
Retinol	EP/In house	≤1.0%	Not detected
*Residual solvent	EP/USP/ICH	Conform to ICH	Certified
*Heavy metals	ChP	≤5mg/kg	Certified
*Arsenic	GB 5009.76	≤1mg/kg	Certified
*Lead	GB 5009.12	≤2mg/kg	Certified
*Mercury	GB 5009.17	≤0.1mg/kg	Certified
*Cadmium	GB 5009.15	≤1mg/kg	Certified
*Microbiological Tests			
Total mold & yeast count	GB 4789.15	≤100CFU/g	Certified
Total aerobic microbial count	GB 4789.2	≤1000CFU/g	Certified
Coliforms	GB 4789.3	≤3.0MPN/g	Certified
Salmonella	GB 4789.4	n.d./25g	Certified
E.Coli	GB 4789.38	≤10CFU/g	Certified
Staphylococcus aureus	GB 4789.10	n.d./25g	Certified

Conclusion: Conform to "Vitamin A" of EP and "Vitamin A" of USP.

Remarks: The item marked with "*" ensured by quality assurance measures and therefore tested randomly only.

Reviewed by:  (陈娟)
 Reviewed Date: 2021/10/31 14:29:34

Approved by:  (杨学英)
 Approved Date: 2021/10/31 14:49:04