



# CERTIFICADO DE ANÁLISIS (COA)

Producto: Vitamina A Palmitato

CAS N°: 79-81-2

## Certificate of Analysis

Product Name	Vitamin A Palmitate 1,7M(T6c.)		
Product Code	42000025	Batch No.	EM2105002-170T
Sample Source	Plant 2558	Package	20kg/Drum
Mfg. Date	2021/05/03	Quantity	1200kg
Expiry Date	2023/05/02	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 <sub>300</sub> /A <sub>326</sub>	EP/GB 29943	≤0.60	0.57
A <sub>350</sub> /A <sub>326</sub>	EP/GB 29943	≤0.54	0.52
A <sub>370</sub> /A <sub>326</sub>	EP/GB 29943	≤0.14	0.12
Assay			
Expressed as international units	EP/USP/GB 29943	≥1,700,000IU/g	1,820,000IU/g
Expressed as retinol activity equivalents	EP/USP/GB 29943	≥510,000mcg RAE/g	546,055mcg RAE/g
Acid Value	EP/GB 29943	≤2.0mg/g	0.22mg/g
Peroxide Value	EP/GB 29943	≤10.0meq/kg	6.0meq/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: 吕项波 (吕项波)

Approved by: 俞沛沛 (俞沛沛)

Reviewed Date: 2021/05/07 10:12:23

Approved Date: 2021/05/07 16:36:07

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