

**ACROSS BIOTECH**

MAKE A DIFFERENCE

Certificate of Analysis

Product:	Vitamin a palmitate 1.0 Toc. oil	Cas No.:	79-81-2
Quantity:	200kgs	Package:	25kg/carton
MFG Date:	2021/9/20	Batch No.:	2021092001
EXP Date:	2023/9/19	Standard:	EP/USP/FCC

Item	specification	Result
Description	a fat-like, light Yellow solid or a yellow oily liquid, EP/Refer to FCC	Conform
Identification Thin-Layer Chromatoqraphy	Must conform, EP/USP/FCC	Conform
Related Substances		
A300/A326	≤0.60, EP	0.58
A350/A326	≤0.54, EP	0.53
A370/A326	≤0.14, EP	0.12
Chroma	≤3.0, In house	<1.5
Retinol	≤1.0%, EP	n.d.
All trans-isomer Content	≥95.0%, in house	95.4%
Acid value	≤2.0 mg/kg, EP	0.20mg/kg
Peroxide value	≤10.0 meq/kg, EP	1.5 meq/kg
Heavy metals(as Pb)	≤5mg/kg, Ch.P	<5 mg/kg
Lead	≤2mg/kg, FCC	<0.08 mg/kg
Arsenic	≤1mg/kg, Ch.P	<1 mg/kg
Cadmium	≤1mg/kg	conform
Mercury	≤1mg/kg	conform
Residual solvent (ICH Class 3)	≤5,000mg/kg, Ch.P	36.6 mg/kg
Microbiological Tests		
Total aerobic microbial count	≤1000 cfu/g, USP	<10 cfu/g
Total mold & yeast count	≤100 cfu/g	<10 cfu/g
Coliforms	≤3mpn/g	<3.0 cfu/g
E.Coli	≤10 cfu/g	<10 cfu/g
Salmonella	n.d./25g	n.d./25g
Staphylococcus aureus	n.d./25g	n.d./25g
Assay		
Expressed as international units	≥1,000,000 IU/g, EP/USP	1,064,000 IU/g

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Across Biotech Jinan Co., Ltd

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Expressed as equivalent amount of retinol	≥300 mg/kg, EP/USP	319.2 mg/g
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Inspector: Meng Cheng

Checker: Yun Li