



JIANGSU KHONOR CHEMICALS CO., LIMITED

CERTIFICATE OF ANALYSIS

Product Name	Mixed Tocopherols Concentrate	Product Code	M90%
Specification	90%	Report Date	2026.06.12
Batch No.	M20260604t90	Mfg. Date	2026.06.12
Test Standard	FCC, USP-NF 2026	Expiry Date	2028.06.11

Product Standards	Items	Standard requirement	Method	Results
FCC	Appearance	Brown red to light yellow clear oily liquid.It may show a slight presence of waxlike constituents in microcrystalline form.	Visual	Conform
	Identification 1 Color reaction 2 Retention time	1. Positive	FCC	Positive
		2.The principal peak in the chromatogram obtained with the test solution is similar in retention time and size to the principal peak in the chromatogram obtained with reference solution.		Conform
	Acidity	≤1.0 ml		0.2 ml
	Specific Rotation $[\alpha]_D^{25}$	≥+20°		+22.7°
	Assay	≥90.0%		90.7%
	d-(β+γ+δ)-tocopherols in total tocopherols	≥80.0%		88.2%
	*Lead	≤1 mg/kg	AAS	<1 mg/kg
*Heavy Metals	Arsenic	≤1 mg/kg	AFS	<1 mg/kg
	Cadmium	≤1 mg/kg	AAS	<1 mg/kg
	Mercury	≤0.1 mg/kg	AFS	<0.1 mg/kg
Solvent residue-Ethanol		≤5000 ppm	USP<467>	1 ppm
*Benzo(a)Pyrene		≤2 ppb	GC-MS	<2 ppb

*Microbiology	Aerobic Plate Count	≤1000 (cfu/g)	USP<61>	<10 (cfu/g)
	Yeast and Molds	≤100 (cfu/g)	USP<61>	<10 (cfu/g)
	Escherichia Coli	Negative/g	USP<62>	Negative
	Salmonella	Negative/25g	USP<62>	Negative
	Staphylococcus Aureus	Negative/25g	USP<62>	Negative
Conclusion: Conforms to FCC、 USP-NF 2026.				
Remarks: *Test periodically to ensure requirements are met.				

ANALYST: Guang Yang

APPROVER: Shan Guo