# JIANGSU KHONOR CHEMICALS CO., LIMITED

## CERTIFICATE OF ANALYSIS

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|---|---|---|---|
| Product Name | D-alpha Tocopheryl Acid Succinate | Product Code | H1210 |
| Specification | 1210 IU | Report Date | 2026.06.08 |
| Batch No. | 260606A | Mfg. Date | 2026.06.06 |
| Test Standard | USP-NF 2026 | Expiry Date | 2028.06.05 |

| Product Standards | Items | Standard requirement | Method | Results |
|---|---|---|---|---|
| USP -NF 2026 | Identification<br>1 Color reaction<br>2 Specific Rotation$[\alpha]_D^{25℃}$<br>3 Retention Time | 1 Positive | USP | Positive |
| | | 2 ≥+24° | USP<781> | +24.7° |
| | | 3 The retention time of the major peak in the test solution is the same as that of the standard preparation. | USP | Conform |
| | Acidity | 18.0 ml～19.3 ml | USP | 18.9 ml |
| | Assay | 96.0%~102.0%<br>≥1162 IU/g | USP | 98.9%<br>1197 IU/g |
| Appearance | | White to off-white granular or powder. | Visual | Conform |
| Particle Size | | Residue on 20 meshes≤1% | USP<786> | 0 |
| Bulk Density | | 0.45g/cm³~0.60 g/cm³ | USP<616> | 0.52 g/cm³ |
| *Benzo(a)Pyrene | | ≤2 ppb | GC-MS | <2 ppb |
| Solvent residue | Hexane | ≤290 ppm | USP<467> | 22 ppm |
| | Ethanol | ≤5000 ppm | | 1 ppm |
| *Heavy Metals | Lead | ≤1 mg/kg | AAS | <1 mg/kg |
| | 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 |
| *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 USP -NF 2026. | | | | |
| Remarks: *Test periodically to ensure requirements are met. | | | | |

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