

CERTIFICATE OF ANALYSIS

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|-------------------------------|---|-------------------------|--|
| Product Name: | Alpha Lipoic Acid | Lot No.: | KH-A40-250820-1 |
| CAS No.: | 1077-28-7 | Quantity: | 3000kg |
| Product Code: | KH-A40 | Production Date: | 2025-08-20 |
| Manufacturer: | Techno (Fujian) Food Ingredients | Expiry Date: | 2027-08-19 |
| Manufacturing Address: | 1399 Nige Industrial Park Yongan, Fujian 366000, China | Tested by: | Quality Department of Techno Fujian |
| Country of Origin: | China | Test Date: | 2025-08-20 |

| Items | Specifications | Results | Test Method |
|-------------------------------------|------------------------------------|---------------|-------------------|
| Appearance | Slightly yellow crystalline powder | Passes | Organoleptic |
| Assay (HPLC) | 99.0% -101.0% | 99.3% | USP |
| Bulk Density | ≥0.300 g/ml | 0.367 g/ml | GB/T 20316.2-2006 |
| Tapped Density | ≥0.450 g/ml | 0.542 g/ml | GB/T 21354-2008 |
| Melting temperature | 60.0°C- 62.0°C | 61.1°C | USP |
| Individual impurity | ≤ 0.1% | 0.03% | USP |
| Total impurities | ≤ 2.0% | 0.06% | USP |
| Impurity polymer(TLC) | ≤ 1.0% | Passes | USP |
| Particle size | 100% thru #40 mesh | Passes | GB/T13025.1-2012 |
| Loss On Drying | ≤ 0.2% | 0.16% | USP |
| Residual on Ignition | ≤ 0.1% | 0.08% | USP |
| Specific Rotation $[\alpha]_D^{25}$ | -1.0° to +1.0° | 0° | USP |
| Heavy Metals (as Pb) | ≤ 10ppm | ≤ 10ppm | General Rule 0821 |
| Lead (Pb) | ≤ 0.5ppm | ND | ICP-MS |
| Cadmium (Cd) | ≤ 1ppm | ND | ICP-MS |
| Mercury (Hg) | ≤ 0.1ppm | ND | ICP-MS |
| Arsenic (As) | ≤ 1ppm | 0.00657ppm | ICP-MS |
| Cyclohexane | ≤ 3880ppm | 1486ppm | USP |
| Ethyl Acetate | ≤ 5000ppm | 400ppm | USP |
| Total Aerobic Count | ≤ 1000 cfu/g | < 10 cfu/g | GB 4789.2-2022 |
| Molds and Yeasts | ≤ 100 cfu/g | < 10 cfu/g | GB 4789.15-2016 |
| Total Coliforms | ≤ 100 cfu/g | < 10 cfu/g | GB 4789.3-2016 |
| Escherichia Coli | Negative to test (<10 cfu/g) | < 10 cfu/g | GB 4789.38-2012 |
| Salmonella Species | Negative to test (Absent in 25g) | Absent in 25g | GB 4789.4-2024 |
| Staphylococcus Aureus | Negative to test (Absent in 25g) | Absent in 25g | GB 4789.10-2016 |

Conclusion: This Batch of Product Complies with current USP standard.

Los datos del presente documento son suministrados por el fabricante. La empresa no se responsabiliza por el uso incorrecto del producto.