

Aladdin warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Aladdin-e.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

## Specification Sheet

Product Name: **(R)-(+)- $\alpha$ -Lipoic acid**  
Specifications & Purity: animal free, Low Endotoxin,  $\geq 98\%$ , for cell culture  
SKU #: **L657078**

### Parameter

### Limit Values

|  |   |
|--|---|
| Appearance(L657078)                                      | White to Pale Yellow to Yellow Crystals to Powder and/or Chunks |
| Proton NMR spectrum                                      | Conforms to Structure   |
| Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in EtOH})$ | 110-129 ( $^{\circ}$ )  |
| Residue on Ignition                                      | 0-0.1 (%)   |
| Heavy metals   | 0-10 (ppm)  |
| Total Plate Count  | $\leq 1000$ (CFU/g)   |
| Yeasts and moulds  | $\leq 100$ (cfu/g)  |
| E.coli   | Negative  |
| Salmonella   | none detected   |
| Purity(HPLC area)  | 98-100 (%)  |
| Melting point  | 47-51 ( $^{\circ}\text{C}$ )                                    |
| Loss on drying   | 0-1 (%)   |
| Cell Culture Test  | pass  |
| Endotoxin Assay  | 0-1 (EU/mg)   |
| Solubility(50mg/mL in EtOH)                              | pass  |

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