

## CERTIFICATE OF ANALYSIS

|                       |                                       |                         |            |
|-----------------------|---------------------------------------|-------------------------|------------|
| <b>Product Name</b>   | R-alpha-Lipoic acid tromethamine salt | <b>Manufacture Date</b> | 2021-08-15 |
| <b>Batch Number</b>   | KN210815                              | <b>Analysis Date</b>    | 2021-08-15 |
| <b>Batch Quantity</b> | 50KG                                  | <b>Expiration Date</b>  | 2023-08-14 |

| Test                       | Specifications                    | Result                         |
|----------------------------|-----------------------------------|--------------------------------|
| <b>Assay</b>               | 97.0%-103.0%                      | 99.16%                         |
| <b>Appearance</b>          | Pale yellow crystalline powder    | Pale yellow crystalline powder |
| <b>Odor &amp; taste</b>    | Odorless and tasteless            | Odorless and tasteless         |
| <b>MP</b>                  | 115~120°C                         | Complies                       |
| <b>Specific rotation</b>   | +67°~+77°                         | Complies                       |
| <b>Residue on ignition</b> | ≤0.1%                             | 0.05%                          |
| <b>Loss on drying</b>      | ≤0.5%                             | 0.25%                          |
| <b>Heavy metal</b>         | ≤20ppm                            | <20ppm                         |
| <b>Conclusion:</b>         | Comply with the in house standard |                                |

|                            |                                      |
|----------------------------|--------------------------------------|
| <b>Packing description</b> | 1kg/foil bag; 25kg/drum              |
| <b>Storage</b>             | Store in a cool and ventilated place |
| <b>Shelf life</b>          | 2 years when properly stored         |



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