

### CERTIFICATE OF ANALYSIS

|                            |                            |              |               |
|----------------------------|----------------------------|--------------|---------------|
| Product Name               | Tris (hydroxymethyl)       | Batch Number | 22071302      |
| Manufacture Date           | 2022.07.13                 | Report Date  | 2022.07.14    |
| Analytical Basis           | 2020<br>CP(2020)           | Package      | 25kg/         |
| Batchsize/Quantity         | 500kg                      | CAS NO.      | 77-86-1       |
|                            |                            |              |               |
| Test Items                 | Standards                  | Results      |               |
| Appearance                 | White crystal              | Conforms     |               |
| Assay %                    | 99.0                       | 100.2        |               |
| MP                         | 168.0-172.0                | 169.1-171.6  |               |
| Solubility                 | Soluble in water & ethanol | Conforms     |               |
| Residue on Ignition %      | 0.1                        | 0.05         |               |
| Heavy Metals ppm           | 10                         | Conforms     |               |
| pH pH value                | 10.0-11.5                  | 10.6         |               |
| chloridate, %              | 0.01                       | Conforms     |               |
| Loss on Drying, %          | 0.6                        | 0.10         |               |
| Molysite, %                | 0.001                      | Conforms     |               |
| Nickel salt, %             | 0.0015                     | Conforms     |               |
| Bacterial endotoxin, EU/mg | 0.03                       | Conforms     |               |
| Aerobe, cfu/g              | 10 <sup>3</sup>            | 10           |               |
| Mould & Yeast, cfu/g       | 10 <sup>2</sup>            | 20           |               |
| E.coli                     | 0                          | Conforms     |               |
| Infrared Spectrum          | Conforms to referenc       | Conforms     |               |
|                            |                            |              |               |
| Conclusion                 | Conforms                   |              |               |
| Analyst                    | Chen heng                  | Checker      | Zhang li      |
| Stamp                      |                            | Shelf Life   | 1<br>One year |