



# 山东八方化工科技有限公司

## SHANDONG OCTAGON CHEMICALS LIMITED



### CERTIFICATE OF ANALYSIS

|                               |                                                              |                  |                            |
|-------------------------------|--------------------------------------------------------------|------------------|----------------------------|
| Product Name                  | <u>L-Glutathione Oxidized (Cas 27025-41-8)</u>               |                  |                            |
| Batch No.                     | 15010-2501002                                                | Mfg. Date        | 2025.05.02                 |
| Rep. Date                     | 2025.05.18                                                   | Retest Date      | 2027.05.01                 |
| Packing                       | 25KG/Drum                                                    | Batch Quantity   | 208.4KG                    |
| Test Items                    | Standards: Enterprise                                        |                  | Results                    |
| Appearance                    | A white crystalline powder                                   |                  | A white crystalline powder |
| Solubility                    | Freely soluble in water and insoluble in ethanol and acetone |                  |                            |
| Identification                | HPLC                                                         |                  | Conforms                   |
| Specific optical rotation:    | -96.0°~-106.0°                                               |                  | -97.5°                     |
| Clarity and color of solution | Should be clear and colorless                                |                  | Conforms                   |
| Loss on drying                | NMT5.0%                                                      |                  | 2.2%                       |
| Residue on ignition           | NMT0.5%                                                      |                  | 0.1%                       |
| Chlorides                     | NMT200ppm                                                    |                  | <200ppm                    |
| Sulphates                     | NMT300ppm                                                    |                  | <300ppm                    |
| Ammonium                      | NMT200ppm                                                    |                  | <200ppm                    |
| Iron                          | NMT10ppm                                                     |                  | <10ppm                     |
| Arsenic                       | NMT1ppm                                                      |                  | <1ppm                      |
| Heavy metals                  | NMT10ppm                                                     |                  | <10ppm                     |
| Related substances            | GSH: NMT0.5%                                                 |                  | 0.04%                      |
|                               | Total other impurities: NMT2.0%                              |                  | 1.0%                       |
| Assay                         | NLT95.0% (on the dried basis)                                |                  | 99.5%                      |
| Conclusion                    | It meets the requirements of Enterprise Standards            |                  |                            |
| Storage                       | Store in an air-tight container at ambient temperature.      |                  |                            |
| Tested By: LI                 |                                                              | Reviewed By: WEI |                            |

Approved By: ZHANG  
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