

## Certificate of Analysis

Date of Testing: 2022-09-16 16:43:44

Date of Next Testing: 2024-09-15 16:43:44

Product Name: **Cefsulodin Sodium Salt Hydrate**

CAS Number: 52152-93-9

Specifications & Purity:  $\geq 95.0\%$ (HPLC)

Lot #: I2213076

SKU # **C136645**

**Analysis:** **127773**

Storage Temperature: Store at -20°C, Argon charged

| Parameter                                                                                        | Limit Values                     | Result                           |
|--------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------|
| Water by Karl Fischer                                                                            | 0-10 (%)                         | 5.47 %                           |
| Nitrogen by Elemental Analysis (anhydrous)                                                       | 9.1-10.6 (%)                     | 9.21 %                           |
| Purity(HPLC)                                                                                     | 95-100 (%)                       | 97.11400 %                       |
| Carbon by Elemental Analysis(anhydrous)                                                          | 44.7-48.1 (%)                    | 45.95 %                          |
| Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in H}_2\text{O})(\text{calcd. on anh. substance})$ | 16.5-20 (°)                      | 16.51 °                          |
| Appearance (C136645)                                                                             | Off-White to Light Yellow Powder | Off-White to Light Yellow Powder |
| Proton NMR spectrum                                                                              | Conforms to Structure            | Conforms to Structure            |



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QA & QC Manager