

## Certificate of Analysis

Date of Testing: 2023-11-16 14:50:46

Date of Next Testing: 2026-11-15 14:50:46

Product Name: **Diphenylmethyl 7 $\beta$ -Amino-3-cephem-4-carboxylate**

CAS Number: 36923-21-4

Specifications & Purity: 96%

Lot #: K2310345

SKU #: **D350273**

**Analysis:** **290816**

Storage Temperature: Store at 2-8°C, Protected from light, Argon charged

| Parameter                                                                  | Limit Values                               | Result                                     |
|----------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Purity(HPLC area)                                                          | 96-100 (%)                                 | 96.47 %                                    |
| Specific Rotation [ $\alpha$ ] <sub>20</sub> /D(c=1 in CHCL <sub>3</sub> ) | 50-55 (°)                                  | 53.20 °                                    |
| Melting point                                                              | 161-171 (°C)                               | 170.97000 °C                               |
| Appearance(D350273)                                                        | White to Orange to Green powder to crystal | White to Orange to Green powder to crystal |
| Proton NMR spectrum                                                        | Conforms to Structure                      | Conforms to Structure                      |



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