

Certificate of Analysis



| Product Identification | | Chemical Structure |
|-------------------------|---|---|
| Catalog number | HB0176 | |
| Compound name | Ceftriaxone disodium salt | |
| Chemical name | 7-[[[(2Z)-2-(2-Amino-4-thiazolyl)-2-(methoxyimino)acetyl]amino]-8-oxo-3-[[[(1,2,5,6-tetrahydro-2-methyl-5,6-dioxo-1,2,4-triazin-3-yl)thio]methyl]-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid disodium salt | |
| Batch number | E0652-1-1 | |
| Batch molecular formula | $C_{18}H_{16}N_8Na_2O_7S_3 \cdot 3.4H_2O$ | |
| Batch molecular weight | 659.90 | |
| Method | QC requirement | QC Result |
| HPLC | Reverse Phase HPLC shows >98% purity | Meets specification: 99.9% |
| TLC | TLC analysis in 40% PAW:BuOH shows one spot under $KMnO_4$ | Meets specification: $R_f=0.3$ |
| Optical rotation | Specific rotation in 6M HCl measured between -150° and -170° | Meets specification: $[\alpha]_D = -170^\circ$ (c=1, H_2O) |
| Physical appearance | White to off-white solid | Meets specification: White solid |
| Solubility | Soluble in DMSO (50 mM) | Meets specification |

Produced by

Signature

Passed by

Signature

Date

15-05-19

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.