

Certificate of Analysis

Product Name	Ceftolozane sulfate
Catalog No.	V17866
Batch No.	V1786601

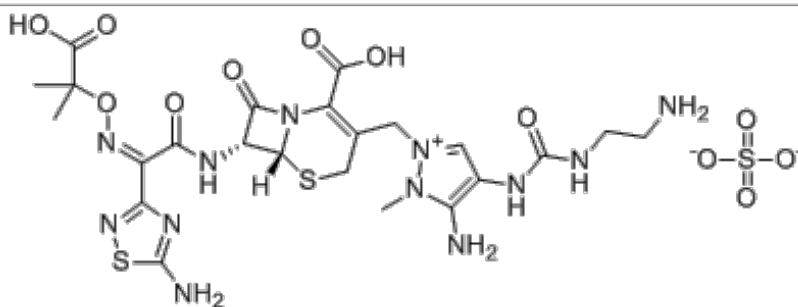
1. Physical and Chemical Properties

Appearance	White powder
Molecular Formula	C23H32N12O12S3
Molecular Weight	764.7684
Purity	Assay: =101.3%
CAS No.	936111-69-2
Production Date	
Retest Date	2028-06-11

2. Analytical Data

Test Item	Specification	Result
Specific optical rotation	-12.0°~-20.0°	-14.6°
HPLC	Retention time of the sample matches that of thereference standard	Conforms
IR	Should conforms	Conforms
mpurity YRI258-01	≤0.15%	0.08%
mpurity YRI258-02	≤0.5%	0.23%
mpurity YRI258-03	≤0.15%	0.10%
mpurity YRI258-04	≤0.15%	0.05%
Impurity YRI258-05	≤0.5%	0.14%
Unidentified single impurity	≤0.10%	0.05%
Total impurities	≤1.5%	0.8%
Sulfate	10.5~13.5%	11.7%
Water content	≤8.5%	6.2%
Residue on ignition	≤0.1%	0.03%
Assay	Ceftolozane contains not less than 97.0% and not more than 103.0% of C23H30N12O8S2, calculated on the anhydrous and sulfuric acid free basis.	101.3%

3. Structure



4. Storage Condition

Storage Condition	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month
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Products are for research use only • Not for human or veterinary use

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