

Certificate of Analysis

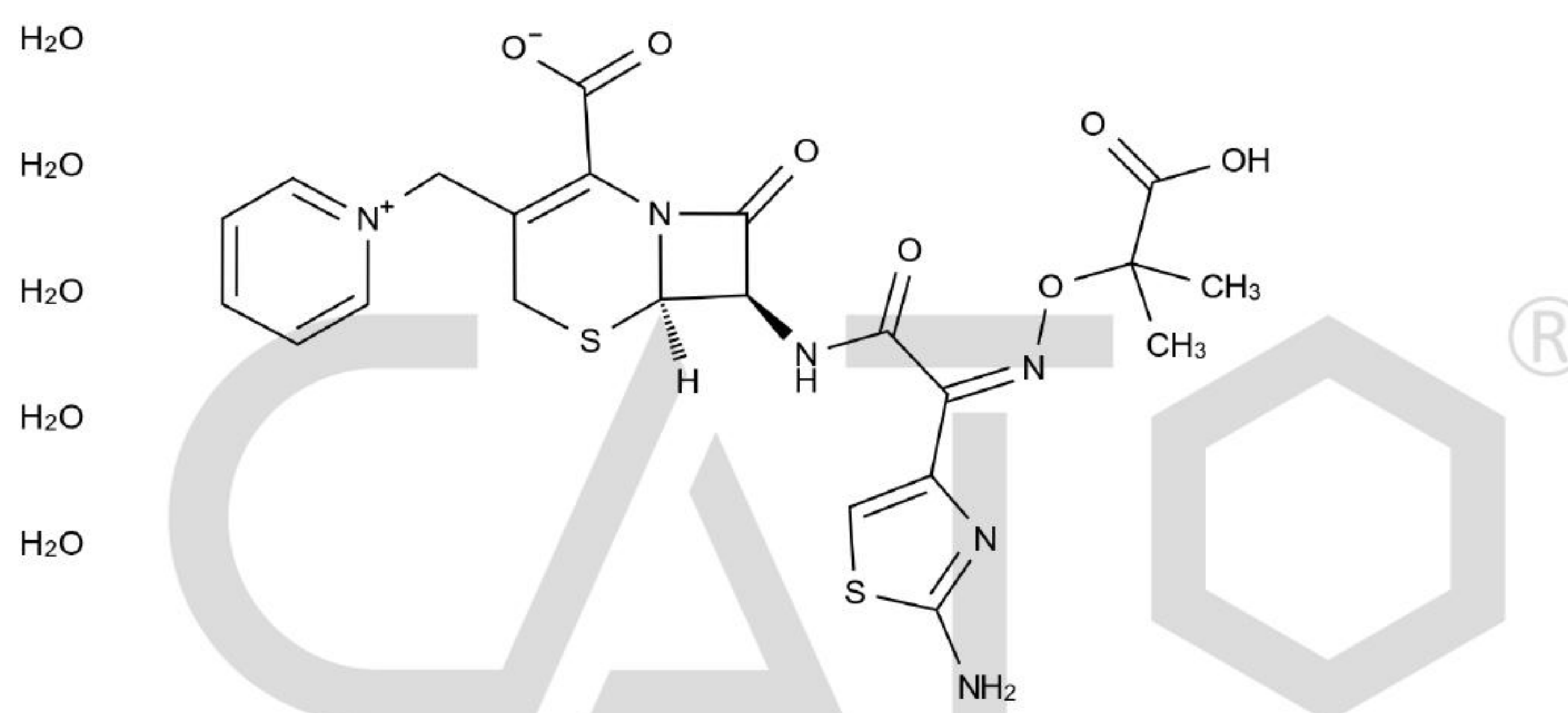
Reference Material & Standard

Product Name:	Ceftazidime Pentahydrate	Catalogue Number:	C4X-1212
Synonyms:	N/A	Lot Number:	0317-RG-0143
CAS Number:	78439-06-2	Expiry Date:	Mar 23, 2028
Molecular Formula:	C ₂₂ H ₂₂ N ₆ O ₇ S ₂ 5*H ₂ O	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	546.58 5*18.02	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.431%
Residue on Ignition	TGA	0.2172%
Loss On Drying	TGA	14.1906%
Loss On Drying(Free Water)		0.0391%
Assay		99.2%

Comment:

- The content of crystal water is 14.1515%.
- The calculation of the 100% method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Residue on Ignition} - \text{Loss On Drying(Free Water)}) * \text{Purity HPLC (\%)} / 100\%$$
Residue on Ignition and Loss On Drying(Free Water) are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Dec 22, 2025

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Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: <https://www.cato-chem.com>

