

Certificate of Analysis

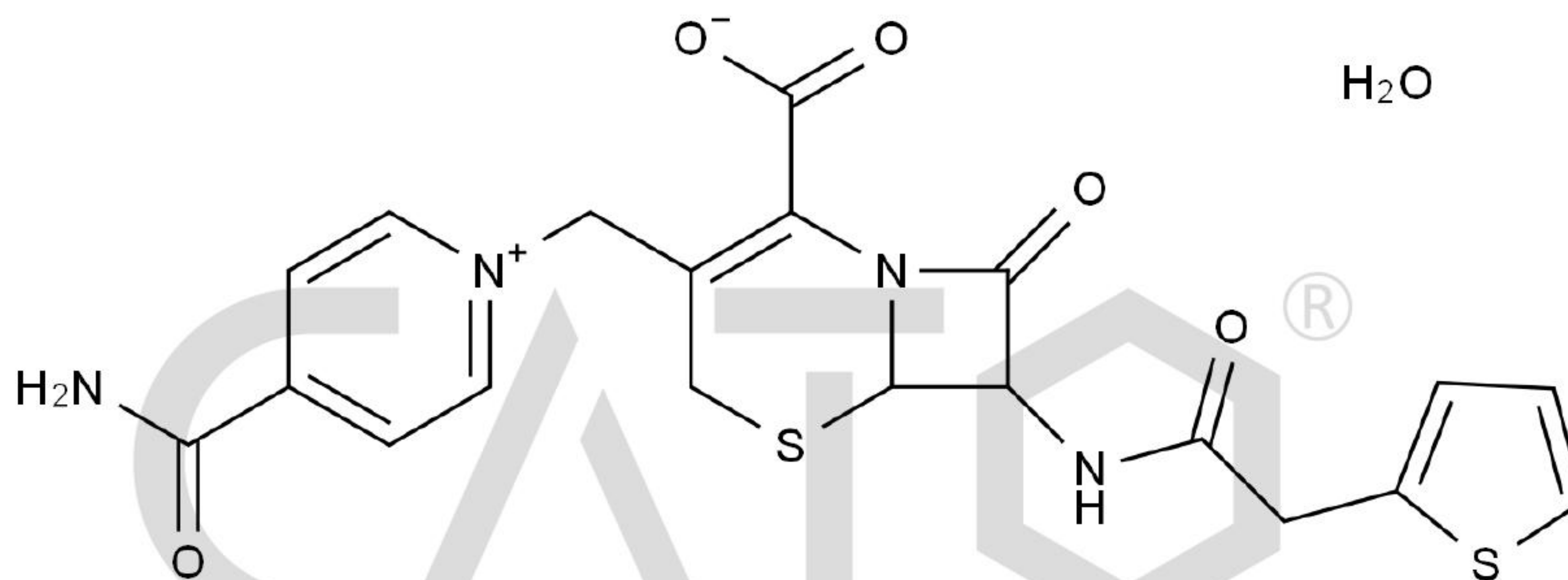
Reference Material & Standard

Product Name:	Cefalonium Hydrate	Catalogue Number:	CCAD300724
Synonyms:	N/A	Lot Number:	0422-RG-0015
CAS Number:	5575-21-3	Expiry Date:	Apr 26, 2029
Molecular Formula:	C ₂₀ H ₁₈ N ₄ O ₅ S ₂ H ₂ O	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	458.51 18.02	Warning:	



H₂O

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Pale Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	97.968%
Loss On Drying	TGA	7.2943%
Loss On Drying(Free Water)		3.5128%
Assay		94.5%
Uncertainty		±0.6%

Comment:

- The content of crystal water is 3.7815%.
- The calculation of the 100% method follows the formula (calculated on the non-dried basis):
Assay (%) = (100%-Loss On Drying(Free Water)) * Purity HPLC (%) / 100%
Loss On Drying(Free Water) is considered as absolute effect, HPLC purity is considered as relative effect.
- The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Nice

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Apr 27, 2025

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