

Certificate of Analysis

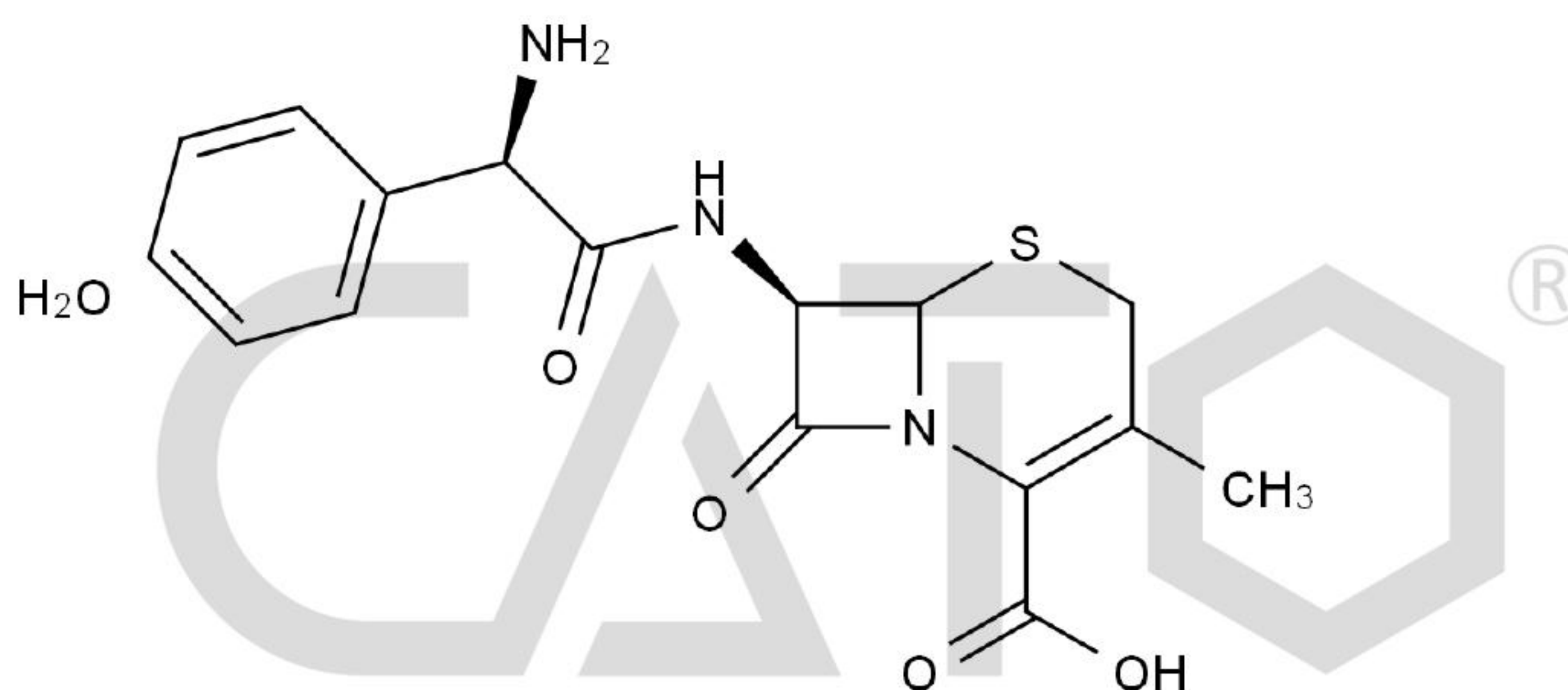
Reference Material & Standard

Product Name:	Cefalexin Monohydrate	Catalogue Number:	CCAD300112
Synonyms:	N/A	Lot Number:	0915-RH-0056
CAS Number:	23325-78-2	Expiry Date:	Sep 14, 2030
Molecular Formula:	C ₁₆ H ₁₇ N ₃ O ₄ S H ₂ O	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	347.39 18.02	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	98.726%
Loss on Drying	TGA	4.9718%
Loss on Drying(Free Water)		0.0404%
Assay		98.7%
Uncertainty		±0.6%

Comment:

- The content of crystal water is 4.9314%.
- The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Loss on Drying(Free Water)}) * \text{Purity HPLC (\%)} / 100\%$$
 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:

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David

Date: Sep 15, 2026

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