

Certificate of Analysis

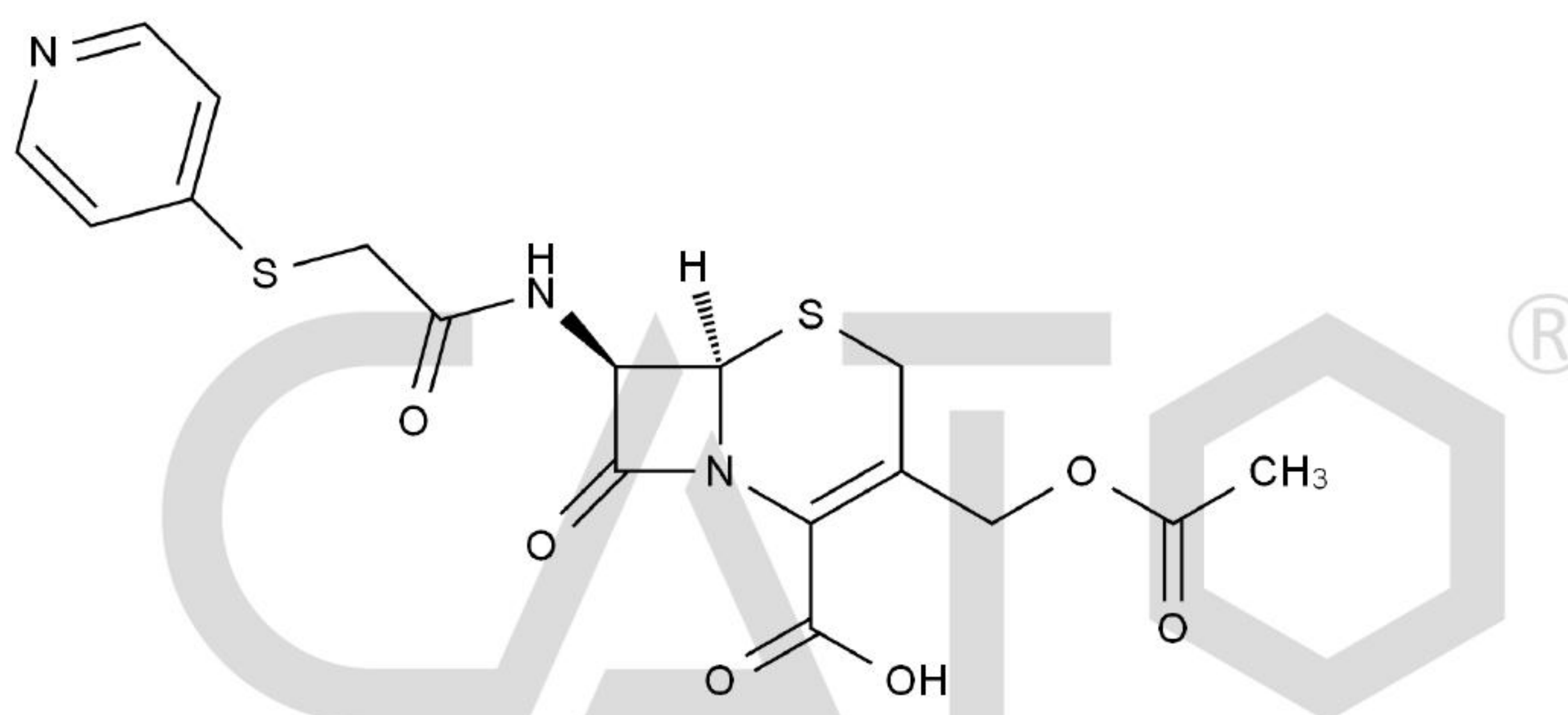
Reference Material & Standard

Product Name:	Cephapirin	Catalogue Number:	CCAD300723
Synonyms:	N/A	Lot Number:	0618-RF-0048
CAS Number:	21593-23-7	Expiry Date:	Jun 17, 2028
Molecular Formula:	C ₁₇ H ₁₇ N ₃ O ₆ S ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	423.46	Shipping Condition:	Shipping with Ice Packs

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	93.514%
Loss on Drying	TGA	3.5379%
Assay		90.2%
Uncertainty		±2.0%

Comment:

1. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

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

Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.

2. 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:

Lisa

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Jun 18, 2024

Date: Jun 18, 2024

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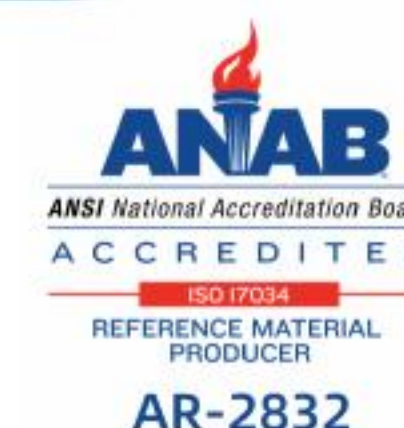
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Page 1 of 6



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