

Certificate of Analysis

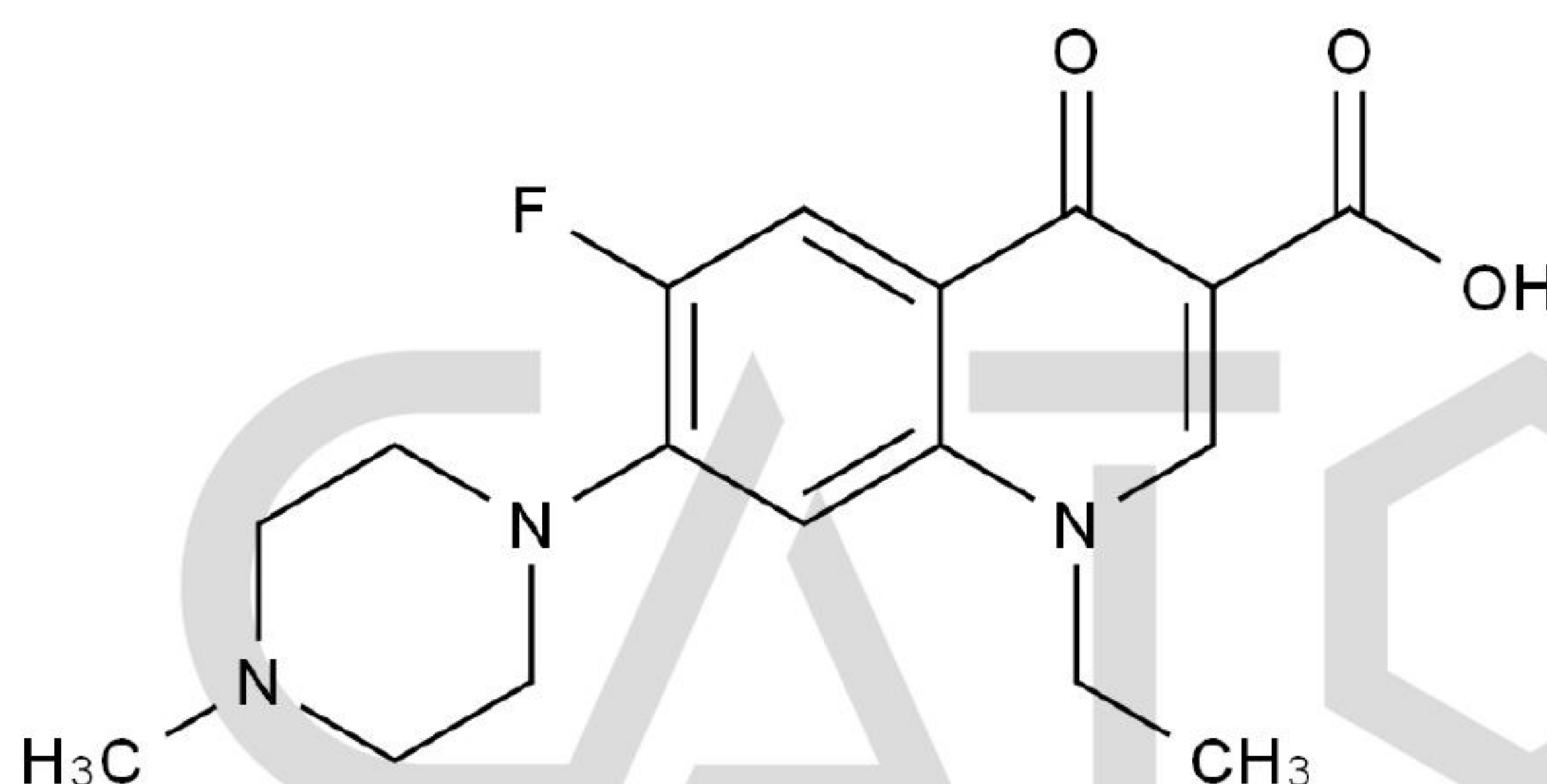
Reference Material & Standard

Product Name:	Pefloxacinium	Catalogue Number:	CCAD301513
Synonyms:	N/A	Lot Number:	0114-RD-0024
CAS Number:	70458-92-3	Expiry Date:	Apr 21, 2029
Molecular Formula:	C ₁₇ H ₂₀ FN ₃ O ₃	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	333.36	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&FNMR&HNMR	Confirmed
Purity	HPLC	100.000%
Residue on Ignition	TGA	0.1834%
Loss on Drying	TGA	0.0456%
Assay		99.8%
Uncertainty		±0.1%

Comment:

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

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

Residue on Ignition and Loss on Drying are 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:

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Reviewed by:

Hin Lam

Approved by General Manager:

David

Date: Apr 23, 2025

Date: Apr 23, 2025

Date: Apr 23, 2025



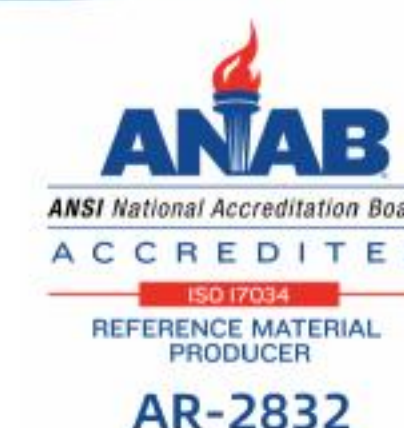
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