

Certificate of Analysis

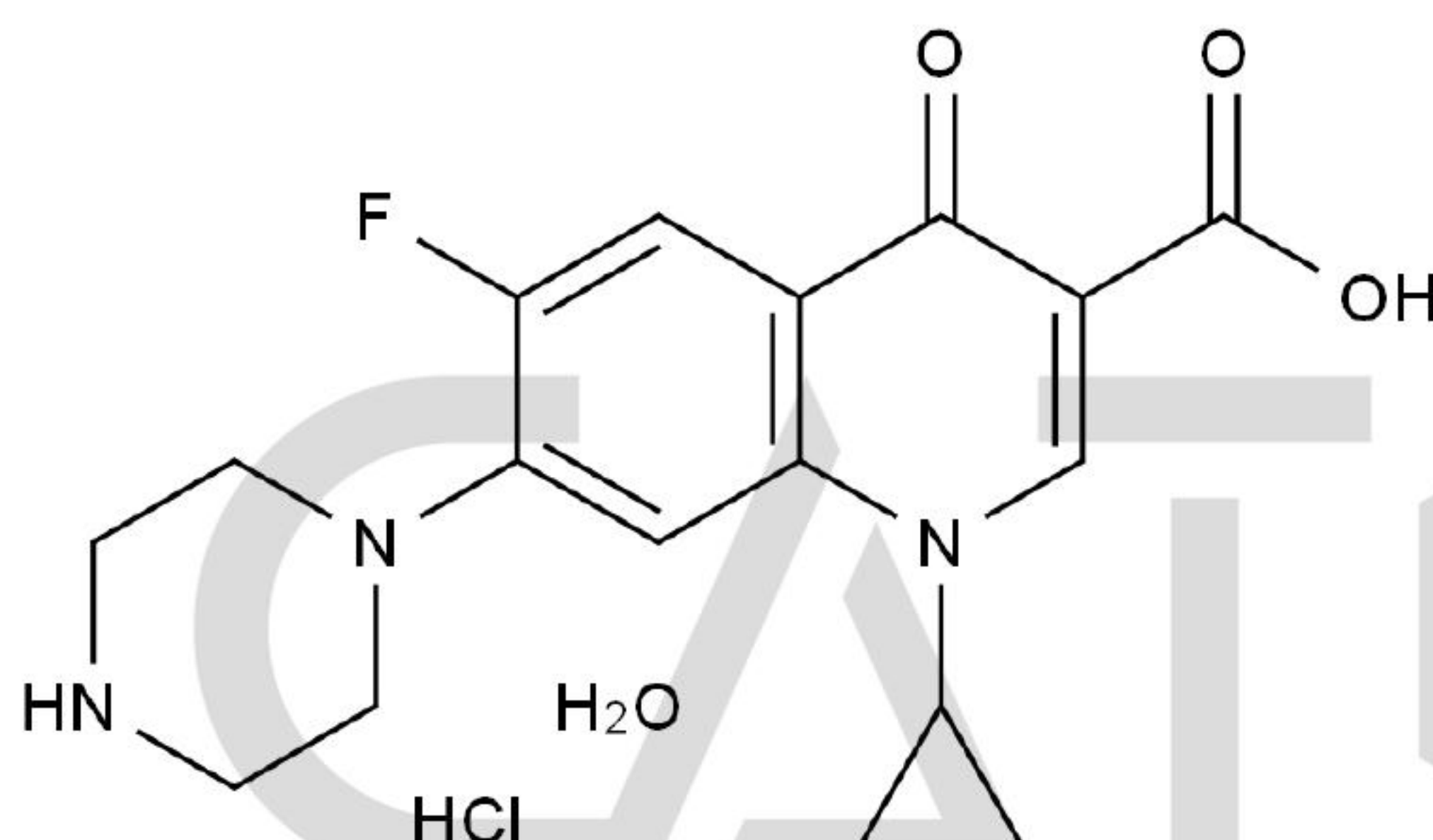
Reference Material & Standard

Product Name:	Ciprofloxacin HCl	Catalogue Number:	C4X-1362
Synonyms:	N/A	Lot Number:	0514-RH-0019
CAS Number:	86393-32-0	Expiry Date:	May 17, 2030
Molecular Formula:	C ₁₇ H ₁₈ FN ₃ O ₃ HCl H ₂ O	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	331.34 36.46 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	99.884%
Loss on Drying	TGA	6.1878%
Loss on Drying(Free Water)		1.5172%
Assay		98.4%

Comment:

- The content of crystal water is 4.6706%.
- 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.

Signature:

Prepared by:

Nice

Reviewed by:

Koi

Approved by General Manager:

David

Date: May 18, 2026

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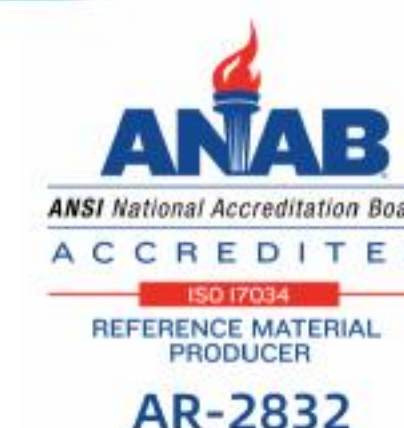
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