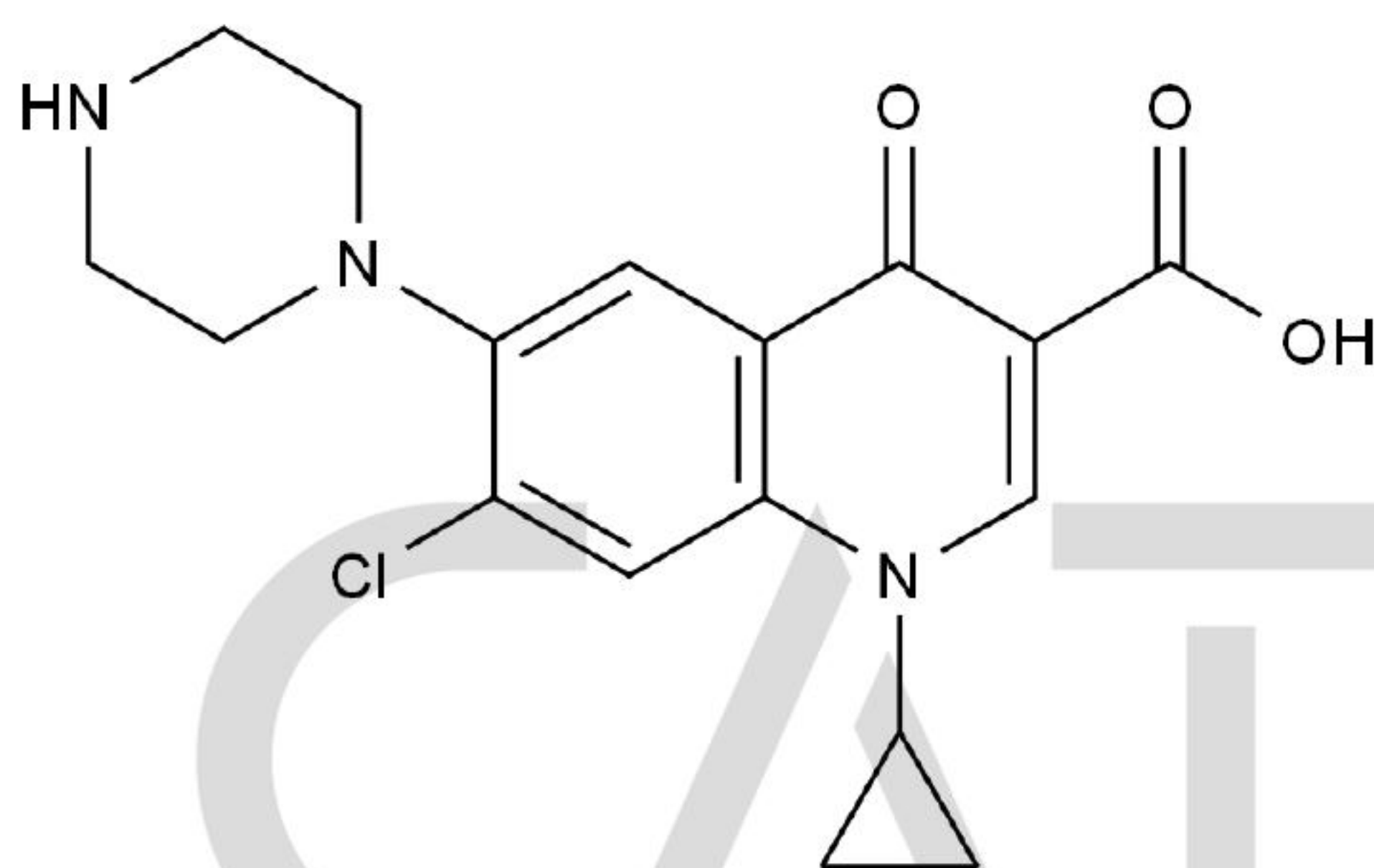


Certificate of Analysis

Reference Material & Standard

Product Name:	Ciprofloxacin EP Impurity D	Catalogue Number:	C4X-13624
Synonyms:	N/A	Lot Number:	1128-RF-0057
CAS Number:	133210-96-5	Expiry Date:	Nov 24, 2027
Molecular Formula:	C ₁₇ H ₁₈ ClN ₃ O ₃	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	347.80		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.503%
Residue on Ignition	TGA	1.7443%
Loss On Drying	TGA	1.9952%
Assay		95.8%

Comment:

The calculation of the 100% 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.

Signature:

Prepared by:

Koi

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Nov 28, 2024

Date: Nov 28, 2024

Date: Nov 28, 2024

