

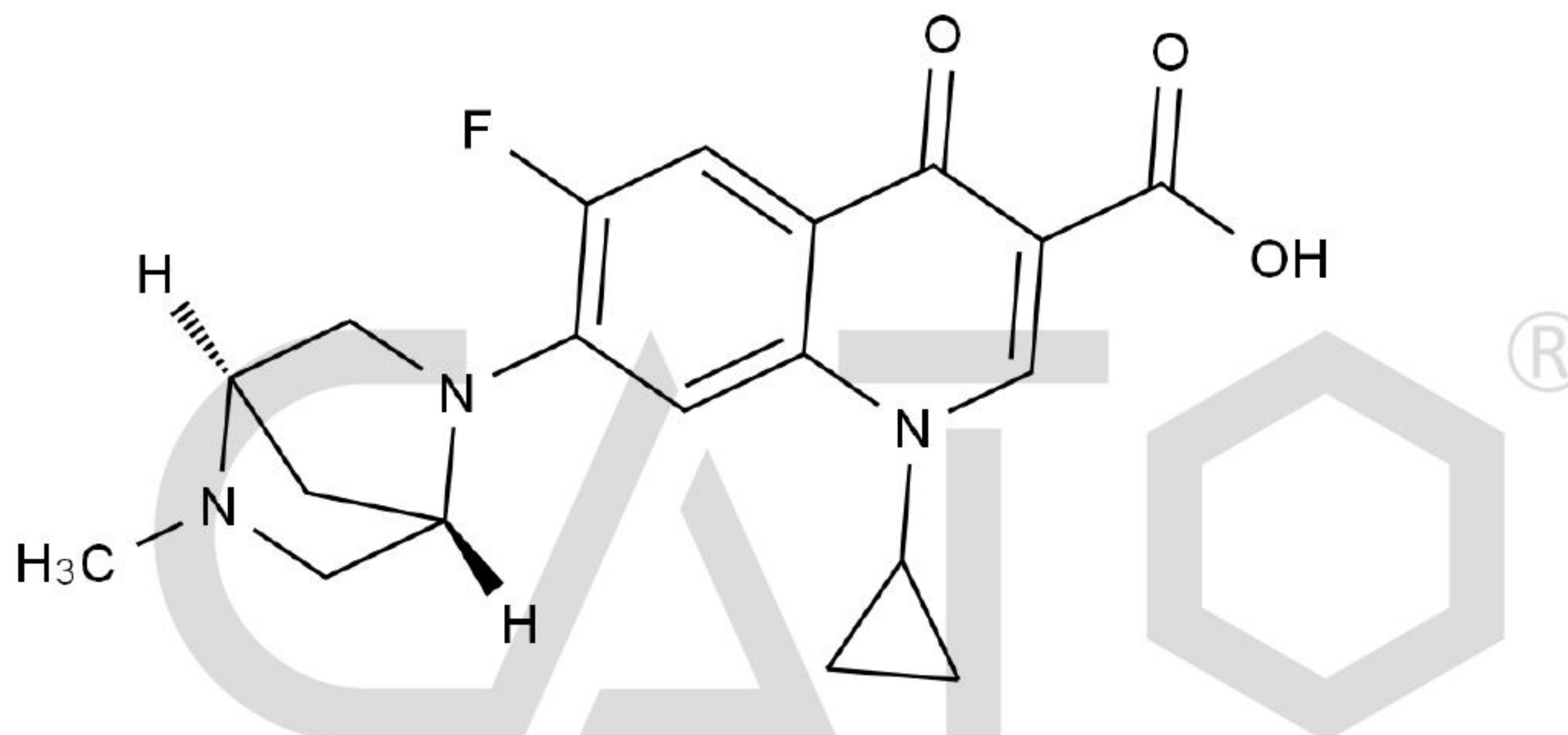
Certificate of Analysis

Reference Material & Standard

Product Name:	Danofloxacin	Catalogue Number:	CCAD300592
Synonyms:	N/A	Lot Number:	1011-RF-0047
CAS Number:	112398-08-0	Expiry Date:	Oct 10, 2028
Molecular Formula:	C ₁₉ H ₂₀ FN ₃ O ₃	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	357.38	Warning:	



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Light Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.932%
Residue on Ignition	TGA	0.0486%
Loss On Drying	TGA	0.7624%
Assay		99.1%
Uncertainty		±2.0%

Comment:

1. 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.

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:

Hinlam

Approved by General Manager:

David

Date: Oct 11, 2024

Date: Oct 12, 2024

Date: Oct 12, 2024

