

Certificate of Analysis

Reference Material & Standard

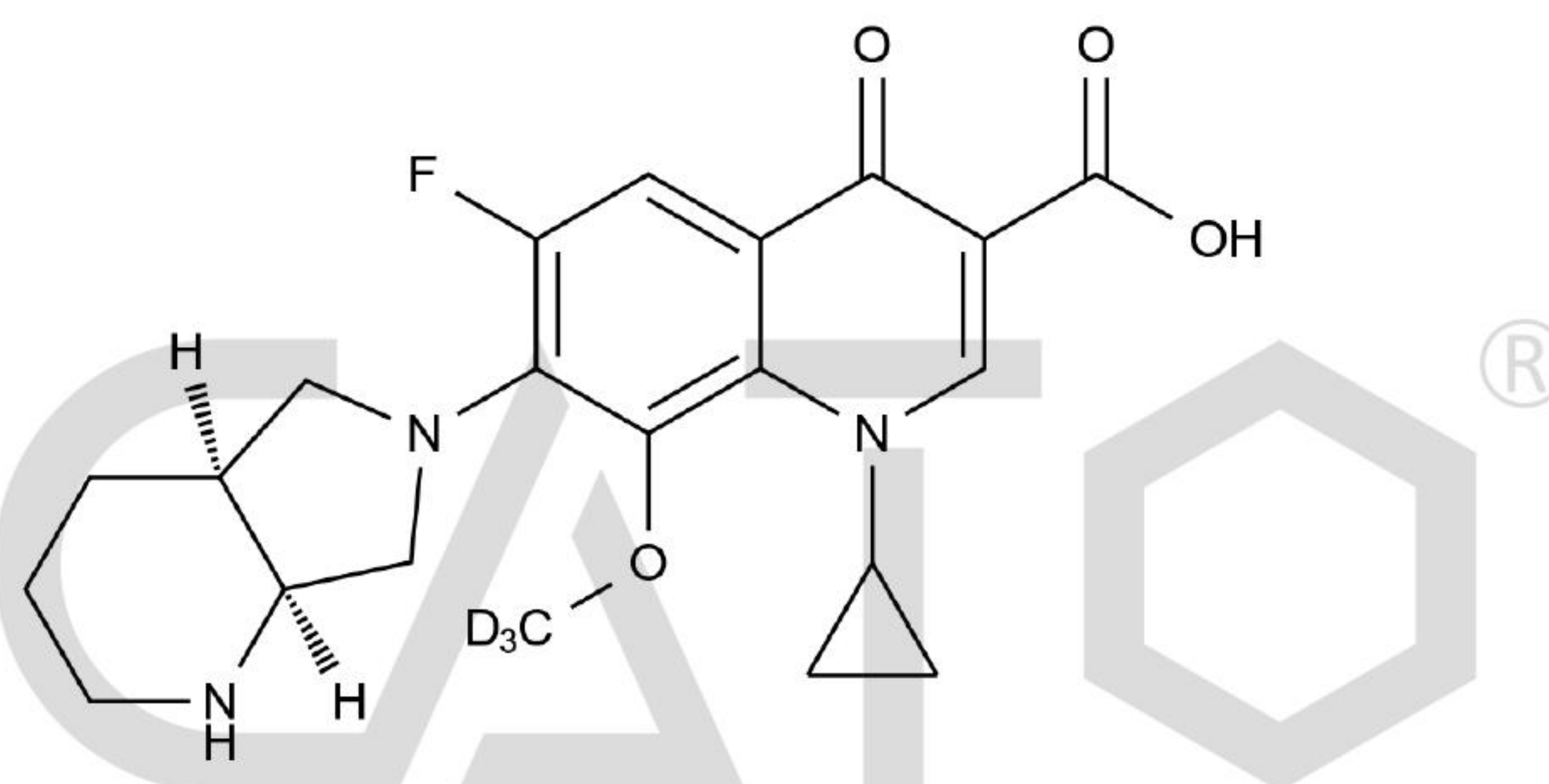
Product Name:	Moxifloxacin-D3 Hydrochloride	Catalogue Number:	CCAD303238
Synonyms:	N/A	Lot Number:	0617-RD-0040
CAS Number:	1092356-42-7	Expiry Date:	Aug 05, 2027
Molecular Formula:	C ₂₁ H ₂₁ D ₃ FN ₃ O ₄ HCl	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	404.45 36.46	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:

HCl



Test Items	Method	Results
Appearance	Visual inspection	Beige Crystalline Solid
Identification	HNMR	Confirmed
Chemical Purity	HPLC	99.534%
Isotopic Purity		99.0%
Water Content	Karl Fischer	2.2%
Assay		97.3%
Uncertainty		±0.3%

Comment:

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

$\text{Assay (\%)} = (100\% - \text{Water Content}) * \text{Purity HPLC (\%)} / 100\%$

Water Content 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:

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Date: Apr 03, 2026

Date: Apr 07, 2026

Date: Apr 07, 2026

