

# Certificate of Analysis

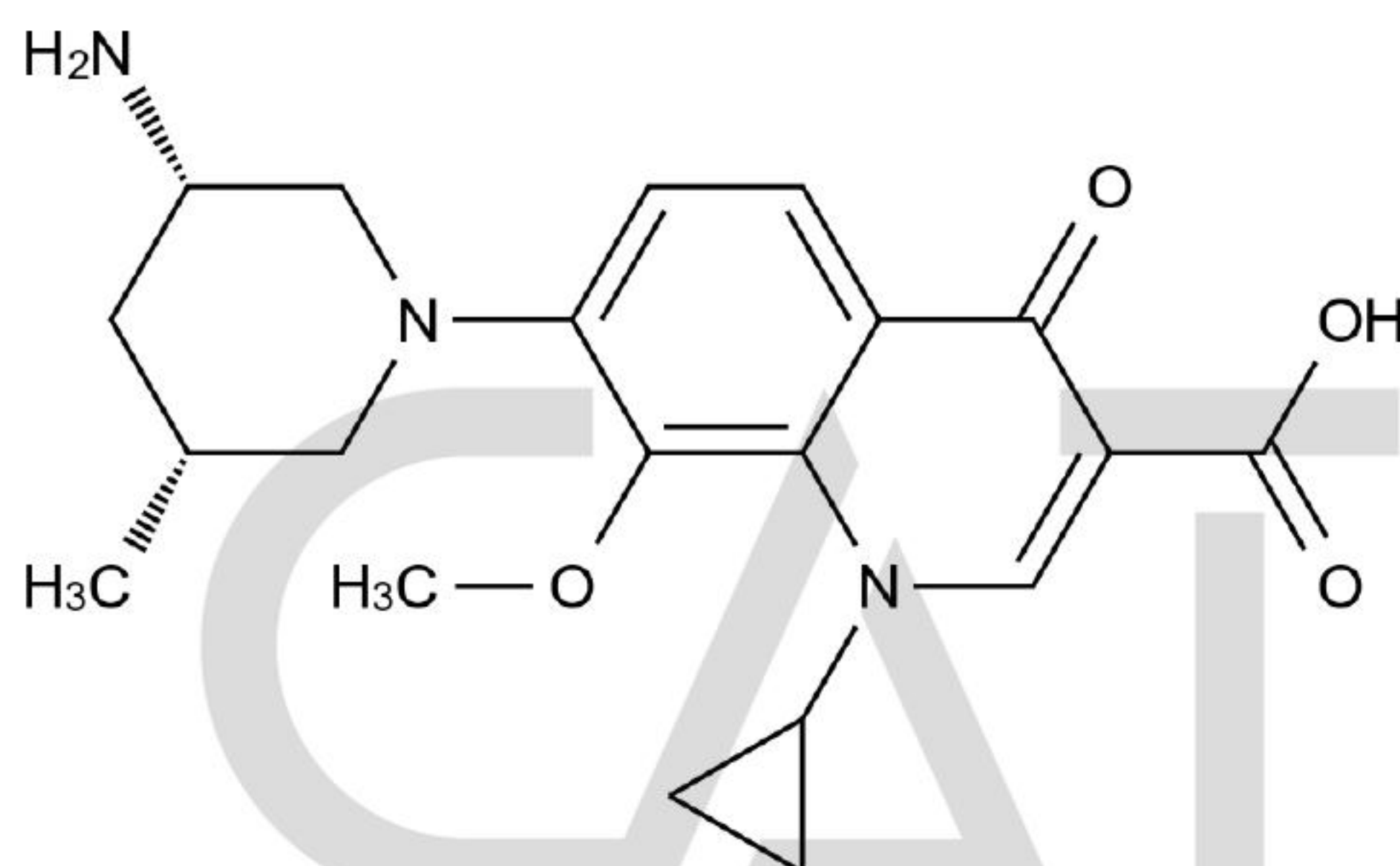
## Reference Material & Standard

|                    |                                                               |                   |                                           |
|--------------------|---------------------------------------------------------------|-------------------|-------------------------------------------|
| Product Name:      | Nemonoxacin Impurity 8                                        | Catalogue Number: | C4X-31288                                 |
| Synonyms:          | N/A                                                           | Lot Number:       | 0122-RG-0088                              |
| CAS Number:        | 378746-65-7                                                   | Expiry Date:      | Jan 13, 2028                              |
| Molecular Formula: | C <sub>20</sub> H <sub>25</sub> N <sub>3</sub> O <sub>4</sub> | Storage:          | 2°C ~ 8°C Protected from light and Sealed |
| Molecular Weight:  | 371.43                                                        |                   |                                           |

Warning:



Chemical Structure:



| Test Items          | Method                                 | Results      |
|---------------------|----------------------------------------|--------------|
| Appearance          | Visual inspection                      | Yellow Solid |
| Identification      | LCMS&CNMR&1H-1H COSY&1H-1H- NOESY&HNMR | Confirmed    |
| Purity              | HPLC                                   | 98.326%      |
| Water Content       | Karl Fischer                           | 9.8106%      |
| Residue on Ignition | TGA                                    | 2.3826%      |
| Assay               |                                        | 86.3%        |

## Comment:

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

Assay (%) = (100% - Water Content - Residue on Ignition) \* Purity HPLC (%) / 100%

Water Content and Residue on Ignition are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

*Koi*

Reviewed by:

*Lisa*

Approved by General Manager:

*David*

Date: Oct 10, 2025

Date: Oct 10, 2025

Date: Oct 10, 2025



Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: <https://www.cato-chem.com>

