

# CERTIFICATE OF ANALYSIS

(Certificate No. KMM171021-02)

Release Date: 16/04/2025

Re-test Date: 15/04/2028

## Moxifloxacin EP Impurity G

### Identification

**Chemical Name :**

1-Cyclopropyl-6-fluoro-8-methoxy-7-[(4aR,7aR)-octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl]-4-oxo-1,4-dihydroquinoline-3-carboxylic acid

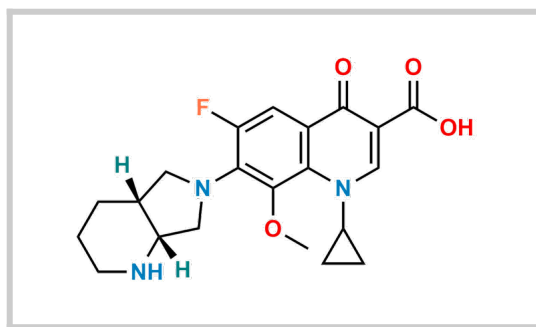
**Alt. Name** : Moxifloxacin USP Related Compound G ; d-Moxifloxacin

**CAT No.** : KMM171021

**CAS No.** : 268545-13-7

**Molecular Formula** : C<sub>21</sub>H<sub>24</sub>FN<sub>3</sub>O<sub>4</sub>

**Molecular Weight** : 401.4



### Analytical Information

**Batch No.** : M171021-091-335

**Description** : Light Yellow Solid

**HPLC Purity** : 98.78 %

**Weight Loss By TGA** : 1.29 %

**% Potency** : 97.51 %

**Solubility** : Water

**Mass** : Confirm

**IR** : Confirm

**<sup>1</sup>H NMR** : Confirm

### Additional Information

**Long Term Storage** : Store at 2-8 deg. C for long term storage

**Shipping Condition** : Product is stable to be Shipped at Room Temperature

**% Potency** = [100 - 1.29(Weight Loss By TGA)] x [98.78(HPLC Purity)]/100 = 97.51 %

**Recommendation** : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Parag Patel		21/04/2025
Reviewed & Approved By	Quality Control	Jatin Patel		21/04/2025

**Attachments** : COA, HPLC, MASS, <sup>1</sup>H NMR, IR and TGA