

# CERTIFICATE OF ANALYSIS

(Certificate No. KMM003001-01)

Release Date: 15/03/2024

Re-test Date: 14/03/2027

## N-Nitroso Mirabegron

### Identification

**Chemical Name :**

(R)-2-(2-aminothiazol-4-yl)-N-(4-(2-((2-hydroxy-2-phenylethyl)(nitroso)amino)ethyl)phenyl)acetamide

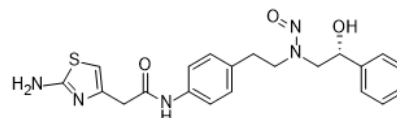
**Alt. Name** : Mirabegron Nitroso Impurity

**CAT No.** : KMM003001

**CAS No.** : Not Available

**Molecular Formula** : C<sub>21</sub>H<sub>23</sub>N<sub>5</sub>O<sub>3</sub>S

**Molecular Weight** : 425.50



### Analytical Information

**Batch No.** : MIR-N-NO-073-127

**Solubility** : ACN

**Description** : Yellow Solid

**Mass** : Confirm

**HPLC Purity** : 99.99 %

**IR** : Confirm

**Weight Loss By TGA** : 1.33 %

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

**% Potency** : 98.66 %

### 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 - 1.33(Weight Loss By TGA)] x [99.99(HPLC Purity)]/100 = 98.66 %

**Recommendation** : Released

|                        | Department      | Name          | Signature | Date       |
|------------------------|-----------------|---------------|-----------|------------|
| Prepared By            | Analytical      | Jignesh Patel |           | 15/03/2024 |
| Reviewed & Approved By | Quality Control | Jatin Patel   |           | 15/03/2024 |

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