

# CERTIFICATE OF ANALYSIS

(Certificate No. KMS002003-01)

Release Date: 14/07/2025

Re-test Date: 13/07/2028

## N-OXIDE IMPURITY FOR SILDENAFIL

### Identification

**Chemical Name :**

4-((4-ethoxy-3-(1-methyl-7-oxo-3-propyl-6,7-dihydro-1H-pyrazolo[4,3-d]pyrimidin-5-yl)phenyl)sulfonyl)-1-methylpiperazine 1-oxide

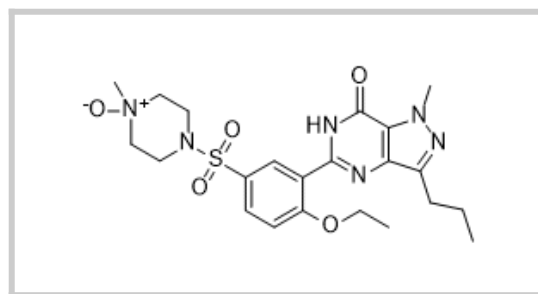
**Alt. Name** : Sildenafil N-Oxide

**CAT No.** : KMS002003

**CAS No.** : 1094598-75-0

**Molecular Formula** : C<sub>22</sub>H<sub>30</sub>N<sub>6</sub>O<sub>5</sub>S

**Molecular Weight** : 490.58



### Analytical Information

**Batch No.** : SIL-N-OXIDE-030-255

**Solubility** : Methanol

**Description** : White Solid

**Mass** : Confirm

**HPLC Purity** : 99.87 %

**IR** : Confirm

**Weight Loss By TGA** : 3.87 %

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

**% Potency** : 96.01 %

### 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 - 3.87(Weight Loss By TGA)] x [99.87(HPLC Purity)]/100 = 96.01 %  
-Re-tested on 14.07.2025

**Recommendation** : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		18/07/2025
Reviewed & Approved By	Quality Control	Jatin Patel		18/07/2025

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