

# CERTIFICATE OF ANALYSIS

(Certificate No. KMS002002-01)

Release Date: 15/03/2024

Re-test Date: 14/03/2027

## Sildenafil EP Impurity F

### Identification

**Chemical Name :**

5-(2-ethoxy-5-(piperazin-1-ylsulfonyl)phenyl)-1-methyl-3-propyl-1H-pyrazolo[4,3-d]pyrimidin-7(4H)-one TFA salt

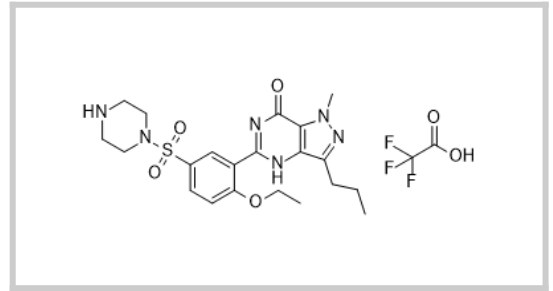
**Alt. Name** : N-Desmethyl Sildenafil

**CAT No.** : KMS002002

**CAS No.** : Not Available

**Molecular Formula** : C<sub>21</sub>H<sub>28</sub>N<sub>6</sub>O<sub>4</sub>S : C<sub>2</sub>HF<sub>3</sub>O<sub>2</sub>

**Molecular Weight** : 460.55 : 114.02



### Analytical Information

**Batch No.** : SIL-DES-ME-073-129

**Description** : White Solid

**HPLC Purity** : 99.97 %

**Weight Loss By TGA** : 1.39 %

**% Potency** : 98.58 %

**Solubility** : ACN

**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 - 1.39(Weight Loss By TGA)] x [99.97(HPLC Purity)]/100 = 98.58 %

**Recommendation** : Released

	Department	Name	Signature	Date
<b>Prepared By</b>	Analytical	Jignesh Patel		15/03/2024
<b>Reviewed &amp; Approved By</b>	Quality Control	Jatin Patel		15/03/2024

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