

# CERTIFICATE OF ANALYSIS

(Certificate No. KMS002041-01)

Release Date: 03/01/2024

Re-test Date: 02/01/2027

## Sildenafil EP Impurity A

### Identification

**Chemical Name :**

5-[2-Ethoxy-5-[(4-methylpiperazin-1-yl)sulfonyl]phenyl]-1-methyl-3-(2-methylpropyl)-1,6-dihydro-7H-pyrazolo[4,3-d]pyrimidin-7-one,

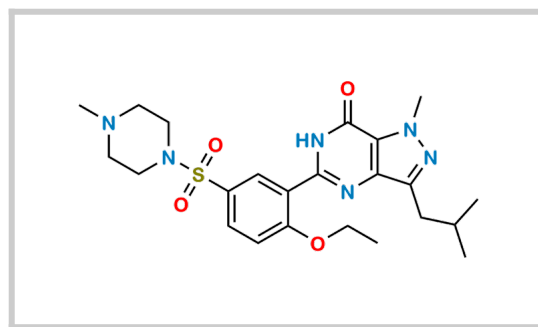
**Alt. Name** : Sildenafil USP RC A ; Sildenafil Isobutyl Analog

**CAT No.** : KMS002041

**CAS No.** : 1391053-95-4

**Molecular Formula** : C<sub>23</sub>H<sub>32</sub>N<sub>6</sub>O<sub>4</sub>S

**Molecular Weight** : 488.6



### Analytical Information

**Batch No.** : SIL-IMP-A-045-298

**Description** : White Solid

**HPLC Purity** : 99.97 %

**Weight Loss By TGA** : 0.33 %

**% Potency** : 99.64 %

**Solubility** : ACN : Water (1:1)

**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 - 0.33(Weight Loss By TGA)] x [99.97(HPLC Purity)]/100 = 99.64 %

**Recommendation** : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		27/03/2025
Reviewed & Approved By	Quality Control	Jatin Patel		27/03/2025

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