CERTIFICATE OF ANALYSIS

(Certificate No. KMS002003-01)

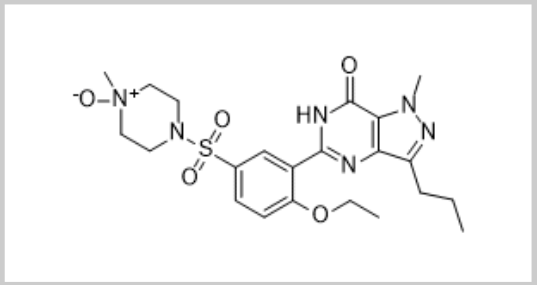
Release Date: 14/07/2025 **Re-test Date:** 13/07/2028

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	: C22H30N6O5S
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 %	**1H 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, 1HNMR, IR and TGA