CERTIFICATE OF ANALYSIS

(Certificate No. KMC020001-01)

Release Date: 06/05/2025

Re-test Date: 05/05/2028

N-Nitroso Cyclophosphamide EP Impurity D

Identification

Chemical Name :

3-(2-chloroethyl)-2-hydroxy-6-nitroso-1,3,6,2-oxadiazaphosphonane 2-oxide (Mixture of E/Z Isomer)

Alt. Name	: N-Nitroso Cyclophosphamide USP Related compound B	CI
CAT No.	: KMC020001	
CAS No.	: Not Available	N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-
Molecular Formula	: C7H15ClN3O4P	HO_P_N'SO
Molecular Weight	: 271.64	

Analytical Information

Batch No.	: CYC-EPD-NO-073-147	Solubility	: Water
Description	: Off white Hygroscopic Solid	Mass	: Confirm
HPLC Purity	: 96.23 %	IR	: Confirm
Weight Loss By TGA	: 2.24 %	1H NMR	: Confirm
% Potency	: 94.07 %	13C NMR	: Confirm

Additional Information

Long Term Storage	: Store at 2-8 deg. C for long term storage
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Shipping Condition : Product is stable to be shipped at room temperature

% Potency = [100 - 2.24(Weight Loss By TGA)] x [96.23(HPLC Purity)]/100 = 94.07 % -Mixture of Isomers -Re-purified and re-tested on 06.05.2025

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		09/05/2025
Reviewed & Approved By	Quality Control	Jatin Patel		09/05/2025

Attachments : COA, HPLC, MASS, 1HNMR, 13CNMR, IR and TGA