CERTIFICATE OF ANALYSIS

(Certificate No. KMC020001-01)

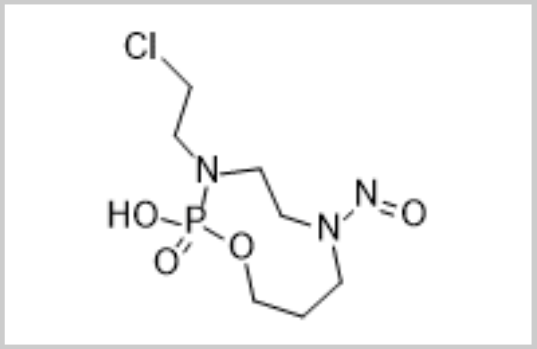
Release Date: 06/05/2025 **Re-test Date:** 05/05/2028

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
CAT No.	: KMC020001
CAS No.	: Not Available
Molecular Formula	: C7H15ClN3O4P
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

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