CERTIFICATE OF ANALYSIS

(Certificate No. KME009009-01)

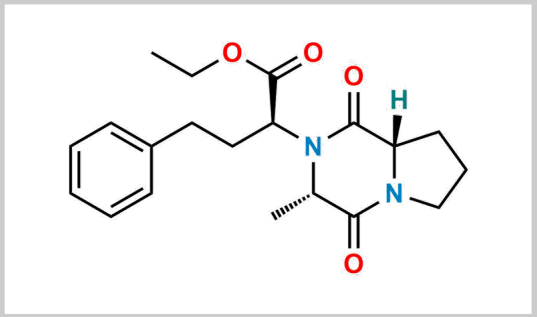
Release Date: 07/08/2025 **Re-test Date:** 06/08/2028

Enalapril Impurity D

Identification

Chemical Name :
Ethyl (2S)-2-[(3S,8aS)-3-methyl-1,4-dioxohexahydropyrrolo[1,2-a]pyrazin-2(1H)-yl]-4-phenylbutanoate (as per EP)

Alt. Name	: Enalapril USP Related Compound D ; Enalapril Diketopiperazine
CAT No.	: KME009009
CAS No.	: 115729-52-7
Molecular Formula	: C20H26N2O4
Molecular Weight	: 358.4



Analytical Information

Batch No.	: ENA-EPD-030-359	**Solubility**	: Acetonitrile
Description	: Off White Solid	**Mass**	: Confirm
HPLC Purity	: 99.37 %	**IR**	: Confirm
Weight Loss By TGA	: 0.91 %	**1H NMR**	: Confirm
% Potency	: 98.47 %		

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 - 0.91(Weight Loss By TGA)] x [99.37(HPLC Purity)]/100 = 98.47 %
-Re-tested on 07.08.2025

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		05/01/2026
Reviewed & Approved By	Quality Control	Jatin Patel		05/01/2026

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