CERTIFICATE OF ANALYSIS

(Certificate No. KMR001014-01)

Release Date: 07/07/2026 **Re-test Date:** 06/07/2029

Ramipril Impurity D

Identification

Chemical Name :
ethyl (S)-2-((3S,5aS,8aS,9aS)-3-methyl-1,4-dioxodecahydro-2H-cyclopenta[4,5]pyrrolo[1,2-a]pyrazin-2-yl)-4-phenylbutanoate

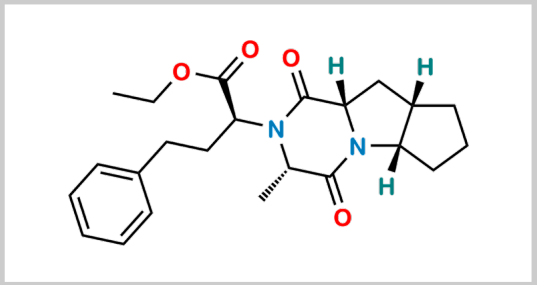
Alt. Name : Ramipril USP Related Compound D

CAT No. : KMR001014

CAS No. : 108731-95-9

Molecular Formula : C23H30N2O4

Molecular Weight : 398.5



Analytical Information

Batch No. : R001014-136-086

Description : Off White Solid

HPLC Purity : 98.19 %

Weight Loss By TGA : 0.09 %

% Potency : 98.1 %

Solubility : Acetonitrile

Mass : Confirm

IR : Confirm

1H 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 - 0.09(Weight Loss By TGA)] x [98.19(HPLC Purity)]/100 = 98.1 %

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		07/07/2026
Reviewed & Approved By	Quality Control	Jatin Patel		07/07/2026

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