

# CERTIFICATE OF ANALYSIS

(Certificate No. KML007012-01)

Release Date: 29/11/2024

Re-test Date: 28/11/2027

## Lisinopril EP Impurity D

### Identification

**Chemical Name :**

(2S)-2-[(3S,8aR)-3-(4-aminobutyl)-1,4-dioxohexahydropyrrolo[1,2-a]pyrazin-2(1H)-yl]-4-phenylbutanoic acid (as per EP)

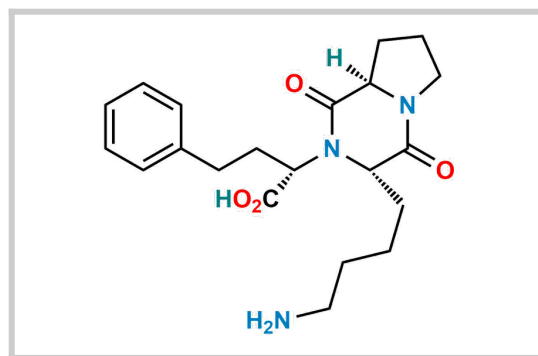
**Alt. Name** : R,S,S-diketopiperazine (EP)

**CAT No.** : KML007012

**CAS No.** : 219677-82-4

**Molecular Formula** : C<sub>21</sub>H<sub>29</sub>N<sub>3</sub>O<sub>4</sub>

**Molecular Weight** : 387.5



### Analytical Information

**Batch No.** : L007012-091-050

**Solubility** : ACN : Water (1:1)

**Description** : Off White Solid

**Mass** : Confirm

**HPLC Purity** : 99.48 %

**IR** : Confirm

**Weight Loss By TGA** : 1.84 %

**<sup>1</sup>H NMR** : Confirm

**% Potency** : 97.65 %

### 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 - 1.84(Weight Loss By TGA)] x [99.48(HPLC Purity)]/100 = 97.65 %

**Recommendation** : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		29/11/2024
Reviewed & Approved By	Quality Control	Jatin Patel		29/11/2024

**Attachments** : COA, HPLC, MASS, <sup>1</sup>HNMR, IR and TGA