

# CERTIFICATE OF ANALYSIS

(Certificate No. KMC065003-01)

Release Date: 25/04/2025

Re-test Date: 24/04/2028

## Captopril Disulphide Impurity

### Identification

**Chemical Name :**

1,1'-[Disulfanediylbis[(2S)-2-methyl-1-oxopropane-3,1-diyl]]bis[(2S)-pyrrolidine-2-carboxylic] acid (as per EP) ; (2'S)-[(2S,2'S)-3,3'-Disulfanediylbis(2-methylpropanoyl)]di-l-proline (as per USP)

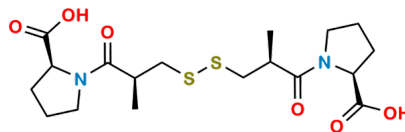
**Alt. Name** : Captopril Disulphide (EP & USP)

**CAT No.** : KMC065003

**CAS No.** : 64806-05-9

**Molecular Formula** : C<sub>18</sub>H<sub>28</sub>N<sub>2</sub>O<sub>6</sub>S<sub>2</sub>

**Molecular Weight** : 432.6



### Analytical Information

**Batch No.** : C065003-091-355

**Description** : White Solid

**HPLC Purity** : 99.00 %

**Weight Loss By TGA** : 0.19 %

**% Potency** : 98.81 %

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

**Mass** : Confirm

**IR** : Confirm

**<sup>1</sup>H 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 - 0.19(Weight Loss By TGA)] x [99.00(HPLC Purity)]/100 = 98.81 %

**Recommendation** : Released

|                        | Department      | Name        | Signature | Date       |
|------------------------|-----------------|-------------|-----------|------------|
| Prepared By            | Analytical      | Parag Patel |           | 25/04/2025 |
| Reviewed & Approved By | Quality Control | Jatin Patel |           | 25/04/2025 |

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