

CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA Tel: (416) 665-9696, Fax: (416) 665-4439

Email:orders.trc@lgcgroup.com Website: www.trc-canada.com

1. Identification

Catalogue T293755 CAS 74163-81-8 Number: Number:

> Synonym: (-)-1,2,3,4-Tetrahydroisoguinoline-3-

carboxylic Acid; L-1,2,3,4-

Tetrahydroisoquinoline-3-carboxylic Acid; L-3-Carboxy-1,2,3,4-tetrahydroisoquinoline; L-

Porretine; Quinapril EP Impurity A;

Structure:

Product:

(S)-1,2,3,4-Tetrahydroisoquinoline-

3-carboxylic Acid

Molecular Formula:

C10H11NO2

Molecular weight:

177.2

Source of Product:

Synthetic Solubility:

96%

Water (Slightly)

Lot

9-ABY-91-1 Number:

Purity:

This Product Is Stable To Be Shipping

Storage Condition: 4°C

Condition: Shipped At Room Temperature

2. Warning

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Tests: Specifications: Results:

Off-White Solid Off-White Solid **Appearance**

NMR Conforms to Structure Conforms MS Conforms Conforms to Structure

98.42% (205 nm) **HPLC Purity** Report Result

Elemental Analysis Conforms %C: 66.36, %H: 6.01, %N: 7.31

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of \pm 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

C of A Approved **Reviewed By Reviewed By Test Date Retest Date** By swathi reddy Toni Rantanen Chanell Chu 10/24/2023 10/22/2030

R. Leti