

## **CERTIFICATE OF ANALYSIS**

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51997-51-4

## 1. Identification

Catalogue E589250 CAS Number: Number:

Synonym: 4-Oxiranylmethoxy-9H-carbazole; 4-

(Oxiranylmethoxy)-9H-carbazole; Carvedilol

EP Impurity D; Carvedilol USP-D

4-(2,3-Epoxypropoxy)carbazole

Structure:

Molecular Formula:

C15H13NO2

Molecular weight:

239.27

Source of Product:

N/A

Solubility:

DMSO (Slightly), Methanol

(Slightly)

Lot Number:

5-ABY-29-1

Purity: 96%

This Product Is Stable To Be **Shipping** Condition: Shipped At Room Temperature Storage

Condition: -20°C

2. Warning

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Specifications: Results: Tests:

**Appearance** Off-White to Light Brown Solid Light Brown Solid

**NMR** Conforms to Structure Conforms

**HPLC Purity** Report Result 96.40% (245 nm)

Conforms to Structure Conforms MS

**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 Chanell Chu swathi reddy Toni Rantanen 2/15/2024 2/13/2031

R. Letti