

CERTIFICATE OF ANALYSIS

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1. Identification

Catalogue D452802

Number:

rac 8,14-Dihydroxy Efavirenz-d4

Structure:

Lot 5-GBH-85-1 Number:

This Product Is Stable To Be Shipping Condition: Shipped At Room Temperature CAS 1189859-26-4 Number:

Synonym: 6-Chloro-1,4-dihydro-8-hydroxy-4-[(1-

hydroxycyclopropyl-d4)ethynyl]-4-

(trifluoromethyl)-2H-3,1-benzoxazin-2-one;

Molecular Formula: C14H5D4ClF3NO4

351.7

Source of Product:

Molecular weight:

Synthetic Solubility:

Acetonitrile (Slightly), Methanol (Slightly)

Purity: Chemical Purity: 97% Isotopic Purity: 99.2%

Storage

Condition: -20°C

2. Warning

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Tests: Specifications: Results:

White to Off-White Solid White to Off-White Solid Appearance

Melting Point >180°C >190°C (dec.)

H NMR Conforms to structure Conforms F NMR Conforms to structure Conforms

Elemental Analysis Conforms %C: 47.74, %H: 2.60, %N: 3.93

Conforms to structure Conforms 99.2% **Isotopic Purity** >95% **HPLC Purity** >95% 97.28%

> TLC Conditions: SiO2; Ethyl Acetate: Hexanes = 1:1; Visualized with UV and KMnO4; Single Spot, Rf = 0.40.1H NMR, 19F NMR and MS

conform to structure. Elemental Analysis: (Found) %C: 47.74, %H: 2.60, %N: 3.93; (Calculated) %C: 47.81, %H: 2.58, %N:

3.98Normalized Intensity: d0 = 0.00%, d1 = 0.03%, d2 = 0.06%, d3

= 2.84%, d4 = 97.07%

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 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

Additional Information:

Reviewed By
Rhonda Tu
Eric Beaton

Reviewed By
Eric Beaton

Retest Date
8/15/2018

8/13/2028