# **CERTIFICATE OF ANALYSIS**

(Certificate No. SZ-L013001-1138)

Analysis Date: 27/07/2022 Re-test Date: 14/06/2024

#### Lamivudine In-House Reference Standard

# Identification

Chemical Name : 4-Amino-1-((2R,5S)-2-(hydroxymethyl)-1,3-oxathiolan-5-yl)pyrimidin-2(1H)-one

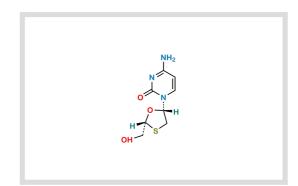
**CAT No.** : SZ-L013001

**CAS No.** : 134678-17-4

Molecular Formula : C8H11N3O3S

Molecular Weight : 229.3

Synonyms : Lamivudine Impurity of Emtricitabine



### **Analytical Information**

Batch Code : SRL-C-201 HPLC Purity : 100.00 %

Solubility : ACN:H2O (8:2) Mass : Confirm

Appearance of product: White Solid IR Analysis: Confirm

**Long Term Storage** : 2–8 °C for long term storage 1H NMR : Confirm

Weight Loss By TGA : 0.00 % 13C NMR : Confirm

Residue On Ignition : 1.39 % DEPT Analysis : Confirm

#### Additional Information

% Potency = [100 - 0.00 (Wt loss by TGA) - 1.39(ROI)] X [100.00 (HPLC Purity)] / 100 = 0.00 MeV.

98.61 %

Elemental Analysis (Theoretical) : %C: 41.91 %H: 4.84 %N: 18.33 %S: 13.98 Elemental Analysis (Practical) : %C: 41.07 %H: 4.950 %N: 18.11 %S: 13.825

**Recommendation** : Released

	Department	Signature	Date
Prepared and Reviewed by	Analytical		
Approved By	Quality Control		

Attachments : HPLC, Mass, 1H NMR, IR, TGA, 13C NMR, DEPT, ROI, CHNS

**Shipping Condition** : All Products are stable to be shipped at room temperature, unless otherwise specified.