

# 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

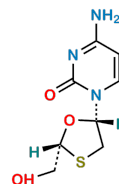
CAT No. : SZ-L013001

CAS No. : 134678-17-4

Molecular Formula : C<sub>8</sub>H<sub>11</sub>N<sub>3</sub>O<sub>3</sub>S

Molecular Weight : 229.3

Synonyms : Lamivudine Impurity of Emtricitabine



### Analytical Information

Batch Code	: SRL-C-201	HPLC Purity	: 100.00 %
Solubility	: ACN:H <sub>2</sub> O (8:2)	Mass	: Confirm
Appearance of product	: White Solid	IR Analysis	: Confirm
Long Term Storage	: 2-8 °C for long term storage	<sup>1</sup> H NMR	: Confirm
Weight Loss By TGA	: 0.00 %	<sup>13</sup> C 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 = 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, <sup>1</sup>H NMR, IR, TGA, <sup>13</sup>C NMR, DEPT, ROI, CHNS

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