

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

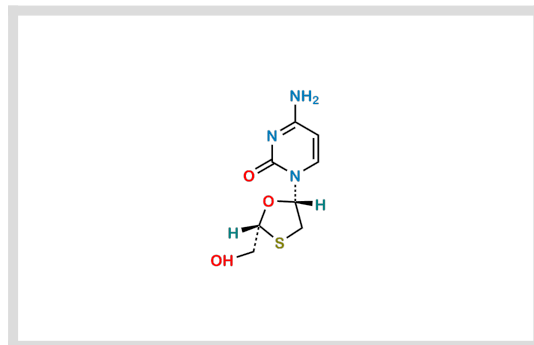
CAT No. : SZ-L013001

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:H ₂ O (8:2)	Mass	: Confirm
Appearance of product	: White Solid	IR Analysis	: Confirm
Long Term Storage	: 2-8 °C for long term storage	¹ H NMR	: Confirm
Weight Loss By TGA	: 0.00 %	¹³ C NMR	: Confirm
Residue On Ignition	: 1.39 %	DEPT Analysis	: Confirm

Additional Information

$$\% \text{ Potency} = [100 - 0.00 (\text{Wt loss by TGA}) - 1.39(\text{ROI})] \times [100.00 (\text{HPLC Purity})] / 100 = 98.61 \%$$

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 by	Quality Assurance		
Checked by	Quality Assurance		
Approved By	Quality Assurance		

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.