

**Lamivudine (3TC)**

**Catalog No. HRP-8146**

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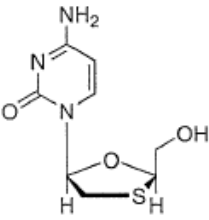
**Product Description:**

Lamivudine (3TC; brand name: Epivir®) is a nucleoside analog. Intracellularly, lamivudine is phosphorylated to the active 5'-triphosphate metabolite, lamivudine triphosphate. Lamivudine triphosphate inhibits the activity of human immunodeficiency virus type 1 (HIV-1) reverse transcriptase by DNA chain termination after incorporation of the nucleoside analog into viral DNA.

**Lot: 70065086**

**Receipt Date: 13DEC2023**

All information below was provided on 13JUN2023 by AK Scientific, Inc. for the bulk material (AK Scientific, Inc. lot 080301JPU1), which has a retest date of 13JUN2028.

<b>Chemical Name</b>	4-Amino-1-[(2R,5S)-2-(hydroxymethyl)-1,3-oxathiolan-5-yl]pyrimidin-2-one
<b>Structure</b>	
<b>Formula</b>	C <sub>8</sub> H <sub>11</sub> N <sub>3</sub> O <sub>3</sub> S
<b>Molecular Weight</b>	229.26
<b>CAS Number</b>	134678-17-4
<b>Content per Vial</b>	20.0 mg ± 0.3 mg
<b>Appearance</b>	White powder
<b>Purity (HPLC)</b>	99.9%
<b>Melting Point</b>	176°C to 178°C
<b>Mass Spectrometry</b>	Spectrum consistent with structure
<b>NMR</b>	Spectrum consistent with structure
<b>FT-IR</b>	Spectrum consistent with structure
<b>Optical Rotation</b>	-146.5° (c=1, MeOH)
<b>Loss on Drying</b>	0.23%

/Kenneth R. Crawford/

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16 FEB 2024

Lead Technical Writer or designee, ATCC Federal Solutions

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