

## Centre for AIDS Reagents Data Sheet

Reagent:	Lamivudine (3TC)
Catalogue:	100396
Lot Number:	13 NB11-29-3
Provided:	20 mg
Chemical Name:	(2R,cis)-4-amino-1-(2-hydroxymethyl-1,3-oxathiolan-5yl)- (1H)-pyrimidin-2-one. Also referred to as (-)2',3'- dideoxy, 3'-thiacytidine
Empirical Formula:	C <sub>8</sub> H <sub>11</sub> N <sub>3</sub> O <sub>3</sub> S
Molecular Weight:	229.26
CAS Num:	134678-17-4
Purity:	100 % (HPLC)
Solubility:	Solubility in water is about 70 mg/ml, soluble in DMSO, slightly soluble in ethanol, insoluble in ethyl acetate.
Mechanical Action:	Lamivudine is a nucleoside analogue. Intracellularly, lamivudine is phosphorylated to the active 5'-triphosphate metabolite, lamivudine triphosphate. Lamivudine triphosphate inhibits the activity of HIV-1 reverse transcriptase by DNA chain termination after incorporation of the nucleoside analogue into viral DNA.
Recommended Storage:	Room temperature. Once re- suspended, working aliquots can be stored at –20°C.
Contributor:	Division of AIDS, NIAID.
NOTE:	This compound is restricted for "research purposes only" and is limited to 40 mg per requester per year. Not available for release to commercial organizations outside of the USA.
	Recipient agrees that the reagent (Lamivudine (3TC)) use is permitted only as a standard for in vitro and/or studies in animals for inhibition of HIV replication.
Acknowledgements:	Publications should acknowledge the contributor and the Centre for AIDS Reagents. Acknowledgments should read: "The <i>Name of Reagent (Repository Number</i> ) was obtained from the Centre for AIDS Reagents, NIBSC, UK, supported by EURIPRED (EC FP7 INFRASTRUCTURES-2012 - INFRA-2012-1.1.5.: Grant Number 31266). www.euripred.eu/



