

## **Technical Datasheet**

## **Reverse Transcriptase**

## (HIV)

Cat No:	PM-1373-	-01	Pack size:	500 U
Concentration:	30 U/µl		Lot No:	P5993HIVRT
Specific Activity:	15,183 U/	/mg	Protein (Bradford).:	1.976 mg/ml
Unit Definition:	One unit is the amount of enzyme required incorporate 1nmol of labelled dTTP into acid-insoluble material in 10 min at 37°C.			
Reaction Buffer:	500mM Tris-HCI (pH8.3) 400mM KCI 60 mM MgCl <sub>2</sub>			
Assay Conditions:	50mM Tris-HCl (pH 8.3) 6 mM MgCl <sub>2</sub> 40mM KCl, 0.5mM [ <sup>3</sup> H]TTP 0.4mM poly rA:dT Reaction volume 100 μl			
Storage Buffer:	20mM potassium phosphate (pH 7.1) 1.0mM DTT 0.02% Triton X-100 50% (v/v) glycerol			
Quality Control:	, , , , , , , , , , , , , , , , , , ,	07		
Protein Purity		50 ng, 100 ng and 20 staining	0 ng were evaluated by	SDS-PAGE/silver
DNase		2.5, 5 and 10 units of lambda DNA (both si	HIV-RT were incubated ngle and double stranded	with [ <sup>32</sup> P] labelled d) for 1 hour at 37°C
RNase		10 units of HIV-RT were incubated with 40ng of RNA substrate for 1 hour at 37°C		
3'-Exonuclease		2.5, 5 and 10 units of HIV-RT were incubated with [ <sup>3</sup> H] labelled 3'- ends of Lambda/Taq I DNA fragments for 1 hour at 37°C		
5'-Exonuclease/5'-Phosphatase		2.5, 5 and 10 units of HIV-RT were incubated with [γ- <sup>32</sup> P] labelled 5'-ends of Lambda/Taq I DNA fragments for 1 hour at 37°C		
Nicking		2.5, 5 and 10 units of HIV-RT were incubated with pBR322 DNA for 1 hour at 37°C		

Storage:

Store at -20°C.

## RESEARCH USE ONLY