

### Certificate of Analysis

Product	Reverse Transcriptase, Recombinant, HIV
Source	Recombinant protein produced in E. coli
Country of Manufacture	USA
Storage	Store at -20°C.
Code	RTHIV
Lot Number	
Re-Assay Date	
Description	Chromatographically purified dimeric form with M.W. of 66 kDa and 51 kDa. A solution in 10mM potassium phosphate, pH 7.4, 1mM DTT and 20% glycerol.
Unit Definition	One Unit incorporates 1 nmole of tritiated d-TMP into acid precipitable products using poly(A)/oligo(dT)12-18 as the template/primer in 20 minutes at 37°C, pH 8.3.

<u>Parameter</u>	<u>Result</u>	<u>Acceptance Criteria</u>
u/mgP	15,000	≥5,000 units per mg protein
units/μl	27.2	Report assay value.
SDS PAGE	Satisfactory	Satisfactory
DNase	None detected	None detected
RNase	None detected	None detected
mgP/ml	1.81	Report Assay Value.

Nuclease: There is none detected after incubation of 0.4μg plasmid DNA with 10 units of RTHIV for 1 hr at 37°C in a total volume of 20μl. RNase: There is none detected following the incubation of 1.5μg of Hela cell total RNA with 10 units RTHIV for 1 hr at 37°C in a total volume of 20μl. Primarily for AIDS research purposes, this enzyme is less efficient than the AMV enzyme in other applications such as the preparation of cDNA from mRNA for cloning purposes.