

AMV Reverse Transcriptase

Description: AMV Reverse Transcriptase is a RNA - dependent DNA polymerase purified from Avian Myeloblastosis virus. The enzyme is used extensively in cDNA synthesis and dideoxy DNA sequencing.

The enzyme possesses several enzymatic activities which include an RNA directed DNA synthesis, a DNA-dependent DNA polymerase, an RNase H activity and an unwinding activity.

Unit definition: One unit of AMV reverse transcriptase is defined as amount of enzyme which incorporates 1 nanomole of (³H) dTMP into an acid insoluble product in 10 minutes at 37°C using poly (A) - oligo (dT) as template - primer.

Assay Buffer: (1X) 50 mM Tris-HCl (pH 8.5), 8 mM MgCl₂, 30 mM KCl and 1mM DTT.

Buffer supplied in **5X** concentration.

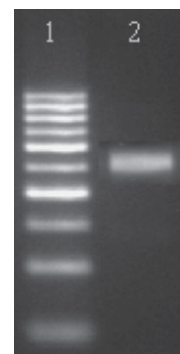
Storage buffer: 200 mM Phosphate Buffer (pH 7.2), 2 mM DTT, 0.2% Triton X-100 and 50% glycerol.

Application: The enzyme is used extensively in cDNA Synthesis and dideoxy DNA sequencing.

Performance Test:

Enzyme Tested for its performance in **RT-PCR** reactions.

Store at -20°C



Lane 1: 100 bp DNA ladder

Lane 2: RT-PCR product of 500 bp fragment from G3PDH gene (cDNA from total HeLa RNA)

RT PCR

Ordering Information:

Product	Size	Cat #
AMV Reverse Transcriptase	100 U	105931

M-MuLV Reverse Transcriptase

Description : M-MuLV RT is a RNA dependent DNA polymerase that uses single stranded RNA or DNA as template. It lacks endonuclease activity and has lower RNase H activity.

Unit definition: One unit of M-MuLV reverse transcriptase is defined as amount of enzyme which incorporates 1 nanomole of (³H) dTMP into an acid insoluble product in 10 minutes at 37°C using poly (A) - oligo (dT) as template - primer.

Assay Buffer: (1X) 50mM Tris-HCl (pH 8.5), 8 mM MgCl₂, 30 mM KCl and 1mM DTT.

Buffer supplied in **5X** concentration.

Storage Buffer : 20 mM Tris-HCl (pH 7.4), 100 mM NaCl, 1 mM EDTA, 1 mM DTT, 0.1% Igepal and 50% glycerol.

Application: The enzyme is used in cDNA synthesis and dideoxy DNA sequencing.

Performance Test:

Enzyme Tested for its performance in **RT-PCR** reactions.

Store at: - 20°C

Ordering Information:

Product	Size	Cat #
M-MuLV RT	1000 U	105891
	5000 U	105890