

Certificate of Analysis

AMV Reverse Transcriptase, 10 units/ul

Cat No : A1201

Lot No : 07271822

TEST	Specification	Result
Appearance	Light liquid	PASS
RT-PCR Performance	Confirmed	PASS
Activity Assay		PASS
<p>First-strand cDNA, of a 1.2kb Control RNA (from Cat.# C4360), is synthesized using 30 units of AMV Reverse Transcriptase per microgram of template, an oligo(dT) primer and a radiolabeled dNTP. The minimum specification is the conversion of >12% of mRNA to cDNA. Full-length cDNA must be observed by gel electrophoresis and autoradiography.</p>		
Contaminant Assay		PASS
<p>Endonuclease Assay: To test for endonuclease activity, 1µg of Type I supercoiled plasmid DNA is incubated with 25 units of AMV Reverse Transcriptase in 50mM Tris (pH 8.3), 40mM KCl, 7mM MgCl₂, 10mM DTT for one hour at 37°C. Following incubation, the supercoiled DNA is visualized on an ethidium bromide-stained agarose gel to verify the absence of visible nicking or cutting.</p> <p>DNase and RNase Assay: To test for nuclease activity, 50ng of radiolabeled DNA or radiolabeled RNA is incubated with 25 units of AMV Reverse Transcriptase in 4mM Tris (pH 8.3), 3.2mM KCl, 0.56mM MgCl₂, 0.8mM DTT for one hour at 37°C, and the release of radiolabeled nucleotides is monitored by scintillation counting of TCA-soluble material. Minimum passing specification is < 1% release for DNase and < 3% release for RNase.</p>		

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