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DATA QUALITY SHEET

M–MuLV Reverse transcriptase

Description M–MuLV Reverse transcriptase is purified from *E.coli* strain with a plasmid that directs thesynthesis of modified form of Moloney Murine Leukemia virus (M-MuLV) reverse transcriptase. M-MuLV reverse transcriptaseis an RNA or DNA directed DNA polymerase. The enzyme can synthesize a complementary DNA strand initiating from aprimer using either RNA (cDNA synthesis) or single stranded DNA as a template. This enzyme had been genetically altered toremove associated RNase H activity. Removal of the RNase H activity resulted in an increase of full-length cDNA products.
MW of Reverase is 69 KDa

Concentration 400 000 units/ml

Storage buffer 50 mM TrisHCl, (pH 8,3), 100mM NaCl, 1mM EDTA, 0,1 mM DTT, 0,1%Triton X-100, 50% glycerol.

Recommended reaction buffer for RT-PCR (1X) 50 mM TrisHCl (pH 8,3 at 25oC), 2-8 mM MgCl2, 10 mM DTT, 100 mM KCl
(OPTIONAL: 2-4 mM MnCl2,)

Unit definition One unit of activity is the amount of enzyme required to incorporate 1 nmole of dTTP into an acid-insoluble form in 10 minutes at 37oC using polyA-oligo(dT) as template and primer.

Storage conditions -20oC