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CERTIFICATE OF ANALYSIS

MMLV-RT

Part Number: M110

Lot Number: XXXXX

Storage Temperature: -20°C

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| Source: | <i>E. coli</i> |
| Size: | Bulk |
| Concentration: | 200 U/ μ l |
| Storage Buffer: | 50 mM Tris-HCl (pH 7.6), 1 mM DTT, 0.1% NP-40, 0.1 mM EDTA, 150 mM NaCl and 50% glycerol. |
| Reaction Buffer (10X): | 500mM Tris-HCl(pH8.3), 750mM KCl, 30mM MgCl ₂ and 100mM DTT |
| Unit Definition: | One unit of the enzyme incorporates 1 nmol dTTP into acid-precipitable material in 10 minutes at 37°C, using poly(rA)-oligo dT as a template:primer. |
| Heat Inactivation: | 65°C for 20 minutes |
| Quality Control: | Enzyme tested for its ability to synthesize full length cDNAs from RNA templates. Purified free of detectable levels of RNase, endonuclease and exonuclease. Incubation of 100 units of enzyme for 2 hours at 37°C in 50 μ l of reaction buffer with 1 μ g template RNA resulted in no detectable degradation of the RNA determined by gel electrophoresis. Incubation of 100 units of enzyme with 1 μ g of plasmid DNA in 50 μ l of reaction buffer at 37°C for 16 hours resulted in no detectable degradation of DNA as determined by gel electrophoresis. |
| Expiration: | Twelve months from shipment date |
| Storage and Handling: | -20°C |

The performance of this product is guaranteed for twelve months from the date of purchase if stored and handled properly. Unless specified otherwise, all Alator Biosciences products are sold for research use only.