



Certificate of Analysis

MuLV Reverse Transcriptase

Product No. N8080018
Lot No. 1653171
Date of Manufacture 01Oct2014
Expiration Date 31Mar2016

MuLV Endonuclease

Specification: On 1 µg of phi X174 RF DNA, $\leq 20\%$ conversion from Form I to Form II and no conversion to Form III must be obtained after a 5hour incubation at 37°C with 1,000 units of enzyme.

Result: Meets specification

MuLV Exonuclease

Specification: With 1 pmol of the relevant substrate the following criteria must be obtained after a 1 hour incubation: 3' ss slope, 3' ds slope, 5' ds slope % released: $\leq 0.05\%$ of termini released per unit of enzyme.

Result: Meets specification

MuLV RNase

Specification: When 1,000 units of enzyme are incubated with 5 µg of 0.5 to 10.0 kb RNA ladder at 37°C for 30 minutes, there must be no downward smearing below the 0.5 kb band as compared to the control.

Result: Meets specification

MuLV 7.5 Kb RNA Functional

Specification: 200 units of enzyme incubated with 2.5 µg of 7.5 kb RNA for 1 hour at 37°C must synthesize >0.2 µg (20%) cDNA.

Result: Meets specification

Specification: $\geq 10\%$ of the cDNA must be >6 kb and $\geq 50\%$ must be >3 kb when analyzed by alkaline agarose gel electrophoresis.

Result: Meets specification

MuLV Enzyme Activity

Specification: ≥ 50 units/ul

Result: Meets specification

For Research Use Only. Not for use in diagnostic procedures. If you have any further questions about this Certificate of Analysis, please contact Technical Services at 1-800-955-6288 (US and Canada) or 1-760-603-7200, x2 (all other countries).

Life Technologies
5791 Van Allen Way
Carlsbad, CA, USA 92008
www.lifetechnologies.com
For inquiries, contact us at cofarequests@lifetech.com



Carol Bleakley
Quality Leader
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