

## RNase-Tolerant MMLV-RT


Suitable for Research and further Manufacturing Use as an IVD component

|                     |            |
|---------------------|------------|
| Catalog No:         | MDX043     |
| Lot No:             | B365400    |
| Storage Conditions: | -20°C      |
| Component Lot No:   | 526202A    |
| Expiry date:        | March 2028 |

### Quality Control Parameters

MMLV-RT (Moloney Murine Leukemia Virus Reverse Transcriptase) is a reverse transcriptase that can be used for cDNA synthesis and subsequent PCR or qPCR in a one-step or two-step assay.

| Analysis            | Specification  | Result |
|---------------------|--|--------|
| Functional          | Quantitative RT-PCR analysis amplifying three targets in multiplex from a dilution series of mouse RNA under standard conditions. Ct profiles must be consistent for test and reference samples with a $\pm 0.5$ Ct variance. The delta Rn of the amplification traces, for test and reference samples, must be within 10 %. | Passed |
| DNA contamination   | Quantitative PCR analysis with no template. Presence of <i>E. coli</i> and mouse genomic DNA checked. Test sample must amplify in line with control sample.  | Passed |
| DNase contamination | Incubation of a 1 Kb double stranded DNA fragment. Incubation for four hours at 37 °C with dilution series of DNase I. Analysed by agarose gel electrophoresis. Test sample must show less degradation than the limit of detection $2.5 \times 10^{-3}$ U DNase I.   | Passed |
| RNase contamination | Quantitative PCR analysis with high and low RNase standards. Test sample must show less RNase activity than the limit of detection $9.7 \times 10^{-3}$ ng/ $\mu$ L RNase.   | Passed |

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