**Product Specifications 95150-01K Rev 01**

<table>
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<th>Component Part Numbers:</th>
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<td>84271 PerfeCta DNase I 0.500 mL</td>
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**Product Description:**
PerfeCta DNase I is an ultra-pure, recombinant bovine DNase I preparation that is permanently inactivated with a proprietary stop buffer and simple heat kill incubation. This reagent provides a simple and rapid solution to eliminate residual genomic DNA from total RNA preparations for expression profiling by reverse transcription quantitative PCR amplification (RT-qPCR) as well as other molecular biology applications. Complete and permanent DNase I inactivation is critical for linear first-strand cDNA synthesis. Residual or renatured DNase will degrade cDNA product and lead to inaccurate target quantification. One unit completely degrades 1µg of dsDNA in 10 minutes at 37°C.

**Quality Control Analysis and Specifications:**

**RNase Contamination:** RNase activity must be below the detectable limits of 1 pg RNase A equivalent as assayed using a fluorogenic substrate following a 1 hour incubation at 37°C with each kit component at 1X concentration.

**qRT-PCR Functional Assay for DNase I:** The Ct difference between positive (+) DNase and Negative (-) DNase I samples must be ≤ 1.5 Ct

**DNasel Mu-gDNA Functional Assay:** The Ct difference between positive (+) DNase and Negative (-) DNase I samples must be ≥ 15 Ct

**Limitations of Use**
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This product was developed, manufactured, and sold for *in vitro* use only. The product is not suitable for administration to humans or animals. SDS sheets relevant to this product are available upon request.

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