Product Specifications: 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.

Component Part Numbers:
84271 PerfeCta DNase I 0.500 mL

Product Specifications
<table>
<thead>
<tr>
<th>Assay</th>
<th>qRT-PCR Functional Assay for DNase I</th>
<th>DNasel Mu-gDNA Functional Assay</th>
<th>RNase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Result</td>
<td>Pass</td>
<td>Pass</td>
<td>Pass</td>
</tr>
</tbody>
</table>

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
Quantabio and Ultraplex are registered trademarks of QIAGEN Beverly, Inc. Quanta Biosciences, qScript, Geltrack, ToughMix, PerfeCta, and Fastmix are registered trademarks of Quanta BioSciences Inc. Extracta, AccuStart, AccuMelt, and Accuvue are trademarks of Quanta BioSciences Inc. Applied Biosystems, StepOne, StepOnePlus and ROX are trademarks of Thermo Fisher Scientific and or its subsidiaries. Please contact QIAGEN-Beverly for more information.

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.

100 Cummings Center, Suite 407J, Beverly, MA 01915 • Ph (888) 927-7027 • Fax (978) 867-5724 • www.QuantaBio.com FMWI016.2 Rev 01