

Product Information	
PerfeCta DNase I	
Part Number	95150-100
Number of Reactions	100 Reactions
Reaction Size	2 units/ $\mu$ L
Storage Temperature	-25°C to -15°C
Lot Number	66168870
Reference Number	092520, 012319, 014988
Expiration Date	06/30/2021

**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 1 $\mu$ g of dsDNA in 10 minutes at 37°C.

**Component Part Numbers:**

- 84359 PerfeCta DNase I, 50uL
- 84272 10X DNase Reaction Buffer 1.5mL
- 84273 10X Stop Buffer 1.5mL

Product Specifications			
95150			
Assay	qRT-PCR Functional Assay for DNase I	DNaseI Mu-gDNA Functional Assay	RNase
Result	Pass	Pass	Pass

**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  $\leq$  1.5 Ct

**DNaseI Mu-gDNA Functional Assay:** The Ct difference between positive (+) DNase and Negative (-) DNase I samples must be  $\geq$  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.