	<b>Certificate of Analysis</b>	COA No: CA_XBE-0079
		Version: 02

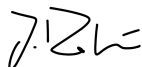
<b>RNase Inhibitor (Glycerol Free)</b>  Suitable for Research and further Manufacturing Use	Catalog No:	MDX120
	Lot No:	B123710
	Storage Conditions:	-80°C
	Component Lot No:	323512A
	Expiry date:	January 2026

### Quality Control Parameters

Inhibits a broad spectrum of eukaryotic RNases, including RNases A, B and C to control for contaminants in RT-PCR assays.

Analysis	Specification	Result
Performance test	Test level of inhibition by incubating total RNA with concentration gradient of RNase A. Bands were observed with agarose gel electrophoresis (ethidium stained).	Passed
Activity	Activity is measured by inhibition of the hydrolysis of cytidine 2',3'-cyclic monophosphate (2',3' cCMP) by RNase A Pass Criteria: $\geq 40$ U/ $\mu$ L	Passed
Specific Activity	$\geq 80000$ U/mg	Passed
Purity	Densitometric analysis of SDS-Page. Pass Criteria: $> 95\%$	Passed
Bioburden	$< 50$ CFU/mL	Passed
DNA Content	$\leq 100$ pg/mg of protein	Passed
Nicking Activity	Incubation of dNTP mix with supercoiled control plasmid. Analysed by agarose gel electrophoresis. Test sample does not show an increase of linearized or relaxed plasmid.	Passed
DNase contaminations	Incubation of a 1Kb double stranded DNA fragment. Incubation for 4 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.	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
RNase activity after heating	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

QA / QC Representative:



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Date: 17<sup>th</sup> January 2024

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