

Glycerol-Free Taq HS 50U/μL

For Research and Further Manufacturing use only

Catalog No:	MDX011
Lot No:	B357320
Storage Conditions:	-20°C
Component Lot No:	GF-525111A
Expiry date:	December 2027

Quality Control Parameters

Lyophilization-compatible, high concentration (50 U/μL), glycerol free DNA enzyme for automated high-throughput testing

Analysis	Specification	Result
Functional	Activity is measured as DNA polymerase units by quantitative PCR analysis against a reference Taq DNA polymerase standard curve. <u>Pass Criteria:</u> Activity must be between 50 and 60 U/μL	56.48 U/μL
Glycerol content	Glycerol concentration is determined by spectrophotometric measurement of a colorimetric product from a coupled enzymatic reaction. <u>Pass Criteria:</u> Glycerol content <0.02 %	Passed
Purity	Purity is measured as a percentage of total protein by quantitative gel electrophoresis on Bioanalyzer (Agilent). <u>Pass Criteria:</u> >50 %	97.1 %
DNA contamination	DNA contamination is measured by quantitative PCR on <i>E. coli</i> and mouse genomic DNA specific targets. <u>Pass Criteria:</u> Amplification traces must overlay with the negative control.	Passed

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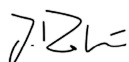
Certificate of Analysis

COA No: CA_XBE-0054-2

Version: v07

DNase contamination	<p>DNase contamination is measured as DNA substrate degradation against a DNase I dilution series by agarose gel electrophoresis.</p> <p>Limit of detection: 6.25×10^{-4} KU DNase I.</p> <p><u>Pass Criteria:</u> No detectable degradation.</p>	Passed
RNase contamination	<p>RNase contamination is measured by quantitative PCR against RNase standards.</p> <p>Limit of detection: 9.7×10^{-3} ng/μL RNase.</p> <p><u>Pass Criteria:</u> No detectable degradation.</p>	Passed

QA / QC Representative:



J. Rahnenführer

Date: 11th November 2025

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	Certificate of Analysis	COA No: CA_BDB-0025-2
		Version: v05

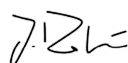
Enzyme Dilution Buffer For research or further manufacturing use only	Catalog No:	MDX011
	Lot No:	B357320
	Storage Conditions:	-20°C
	Lot number:	TDB-525211A
	Expiry date:	December 2027

Quality Control Parameters

Enzyme Dilution Buffer is a glycerol-free 10x buffer used for the dilution of Taq antibody or reverse transcriptase.

Analysis	Specification	Result
Functional	<p>A 3Kb fragment was amplified with a dilution series of Enzyme Dilution Buffer, using standard conditions and 30 cycles.</p> <p>A 3Kb fragment was amplified with a dilution series of <i>Taq polymerase</i>, using standard conditions and 30 cycles.</p> <p>Single distinct bands were observed with agarose gel electrophoresis (ethidium stained).</p>	Passed
Glycerol determination	Glycerol content is < 0.2% determined by spectrophotometric analysis and comparison to a standard curve.	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 a reference sample.	Passed
DNase contamination	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 6.25×10^{-4} KU/ μ L.	Passed
RNase contamination	Quantitative PCR analysis with high and low RNase standards. Test sample must show less RNase activity than the limit of detection: 9.7×10^{-3} ng/ μ l RNase.	Passed

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