meridian BIOSCIENCE ™ LIFE DISCOVERED. LIFE DIAGNOSED.	**Certificate of Analysis**	**COA No: CA_XBE-0068**
		Version: v04

Aptamer Taq HS (Glycerol-Free), 50 U/µL

For Research and Further Manufacturing use only

Catalog No:	MDX015
Lot No:	EN094-B127550
Storage Conditions:	-20°C
Component Lot No:	GFIH-324105A
Expiry date:	June 2026

Quality Control Parameters

Analysis	Specification	Result
Functional	Activity is measured as DNA polymerase units by quantitative PCR analysis against a reference Taq DNA polymerase standard curve. Pass Criteria: Activity must be between 50 and 60 U/µL	59.30 U/µL
Functional	Aptamer specificity is	Passed
Glycerol content	Glycerol concentration is determined by spectrophotometric measurement of a colorimetric product from a coupled enzymatic reaction. Pass Criteria: Glycerol content <0.02 %	Passed
Purity	Purity is measured as a percentage of total protein by quantitative gel electrophoresis on Bioanalyzer (Agilent). Pass Criteria: >50 %	98.6 %
DNA contamination	DNA contamination is measured by quantitative PCR on *E. coli* and mouse genomic DNA specific targets. Pass Criteria: Amplification traces must overlay with the negative control.	Passed

United Kingdom
Tel: +44 (0)20 8830 5300
Fax: +44 (0)20 8452 2822

USA
Tel: +1 901.382.8716
Fax: +1 901.382.0027

Germany
Tel: +49 (0)3371 60222 00
Fax: +49 (0)3371 60222 01

Info@meridianlifescience.com; www.meridianlifescience.com

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

QA / QC Representative: X. Chen Date: 22nd May 2024

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meridian BIOSCIENCE™ LIFE DISCOVERED. LIFE DIAGNOSED.	Certificate of Analysis	COA No: CA_BDB-0025-2
		Version: v05

Enzyme Dilution Buffer For research or further manufacturing use only		
	Catalog No:	MDX015
	Lot No:	EN094-B127550
	Storage Conditions:	-20°C
	Lot number:	TDB-224105A
	Expiry date:	June 2026

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	A 3Kb fragment was amplified with a dilution series of Enzyme Dilution Buffer, using standard conditions and 30 cycles. A 3Kb fragment was amplified with a dilution series of *Taq polymerase*, using standard conditions and 30 cycles. Single distinct bands were observed with agarose gel electrophoresis (ethidium stained).	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 *E. coli* 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/µL.	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/µl RNase.	Passed

QA / QC Representative: X. Chen Date: 22nd May 2024

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Fax: +1 901.382.0027

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Fax: +49 (0)3371 60222 01

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