

Taq HS Antibody Product Handling Guide

Shipping:	On Dry or Blue Ice
Catalog number:	MDX014
Batch No.:	See vial
Concentration:	50 U/ μ L

Store at -20°C



Storage and stability:

Taq HS Antibody is shipped on dry or blue ice. On arrival store at -20°C for optimum stability. Repeated freeze/thaw cycles should be avoided. Thawing during transportation does not affect the product performance. Solutions should be mixed/equilibrated after each thawing to avoid phasing.

Expiry:

When stored under the recommended conditions and handled correctly, full activity of the kit is retained until the expiry date on the outer box label.

Safety precautions:

Read and understand the SDS (Safety Data Sheets) before handling the reagents. Hardcopies of the SDS will be provided with the first shipment, thereafter they will be available upon request.

Quality control:

Bioline operates under ISO 13485 Quality Management System. Taq HS Antibody and its components are extensively tested for activity, processivity, efficiency, heat activation sensitivity, absence of nuclease contamination and absence of nucleic acid contamination.

Notes:

This reagent has been manufactured under 13485 Quality Management System and is suitable for further manufacturing use as an IVD component.

Description

Taq HS Antibody is a mix of anti-Taq antibodies designed to inhibit Taq DNA polymerase activity at room temperature. It is used in the preparation of hot-start PCR or qPCR master mixes and helps to prevent nonspecific amplification and primer-dimer formation, increasing specificity and sensitivity, while allowing assembly of reactions at ambient temperatures.

Inhibition is reversed when the temperature is raised during the first denaturing step of thermal cycling.

Kit Components

Table 1.

Reagent
Taq Antibody

User Guidelines

Master mix preparation

Recommended reagent volumes per 20 μ L PCR mix are given in Table 2.

Table 2.

Reagent	Volume
Taq PCR Buffer, 5x	4 μ L
Taq DNA Polymerase, 5 U/ μ L*	0.4 μ L
Taq Antibody	0.02 μ L
Primer-Probe Mix, 20x	1 μ L
Template**	x μ L
Water	As required
Total volume	Up to 20 μL

*We

recommend using a high-quality polymerase such as Taq DNA Polymerase MDX001

**Use up to 1 μ g of complex (e.g. eukaryotic) genomic DNA or 100 ng cDNA in a single PCR

Assay setup

The PCR conditions in Table 3 are suitable for amplicons of up to 1 kb.

Table 3

Step	Temperature	Time	Cycles
Initial denaturation	95 $^{\circ}\text{C}$	1 min	1
Denaturation	95 $^{\circ}\text{C}$	15 s	25-35
Annealing	User determined	15 s	
Extension	72 $^{\circ}\text{C}$	10 s	

Related Products	Cat. No.
Taq DNA Polymerase	MDX001
Taq PCR Buffer, 5x	MDX002
MMLV-RT	MDX044

Technical Support

For any technical enquiries, please contact our Technical Support team via email at: mbi.tech@meridianlifescience.com

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