

Glycerol-Free Taq HS 50 U/μL Product Handling Guide

Shipping:	On Dry/Blue Ice
Catalog number:	MDX011
Batch No.:	See vial
Concentration:	50 U/μL

Store at -20 °C



Storage and stability:

Glycerol-Free Taq HS is shipped on dry/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. Glycerol-Free Taq HS 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

Glycerol-Free Taq HS 50 U/μL contains a lyophilization-compatible Taq DNA polymerase, separate Taq antibody and enzyme dilution buffer. In order to produce lyophilized, ambient-temperature stable PCR or qPCR reagents, add Glycerol-Free Taq HS 50 U/μL into an appropriate reaction buffer prior to lyophilization.

Glycerol-Free Taq HS 50 U/μL is suitable for difficult, multiplex molecular tests that require fast amplification, whilst maintaining both high specificity and sensitivity.

Kit Components

Table 1.

Reagent
Glycerol-Free Taq HS, 50 U/μL
Taq Antibody, 10 mg/mL
Enzyme Dilution Buffer, 10x

Use 0.1 U/μL Glycerol-Free Taq HS, 50 U/μL per reaction or, to optimize, titrate in the range 0.4-0.05 U/μL.

Addition of non-ionic detergents, or a suitable alternative, to the reaction mix can prevent adsorption and stabilize Glycerol-Free Taq HS, 50 U/μL during PCR. This is not required when preparing a working solution of 5 U/μL Glycerol-Free Taq HS and Taq Antibody because the Enzyme Dilution Buffer contains sufficient detergent.

User Guidelines

Thawing during transportation does not affect the product performance. Prior to use or storing at -20 °C, the thawed Glycerol-Free Taq HS, 50 U/μL must be thoroughly mixed by 10 inversions.

For optimal hot-start activity, Glycerol-Free Taq HS, 50 U/μL and Taq Antibody, 10 mg/mL must be used in a 2:1 volume ratio.

These reagents can either be added directly to a PCR master mix or can be prepared as a premixed working solution as described in Table 2.

Table 2.

Reagent	Ratio	Volume
Glycerol-Free Taq HS, 50 U/μL	0.1	2 μL
Taq Antibody, 10 mg/mL	0.05	1 μL
Enzyme Dilution Buffer, 10x	0.1	2 μL
Water (dH ₂ O)	0.75	15 μL

Technical Support

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

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