Glycerol-Free Non-Bac HS Taq Polymerase (HC) Product Handling Guide

Shipping:	On Blue Ice
Catalog number:	MDX252
Batch No.:	See vial
Concentration:	50 U/µL

Store at –20 °C

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Storage and stability:
Glycerol-Free Non-Bac HS Taq Polymerase (HC) is shipped on 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:
Meridian Bioscience operates under ISO 13485 Quality Management System. Glycerol-Free Non-Bac HS Taq Polymerase (HC) and its components are extensively tested for activity, and sensitivity.

Notes:
For research and further manufacturing use only.

Description

Glycerol-Free Non-Bac HS Taq Polymerase (HC) is a highly thermostable DNA polymerase derived from the thermophilic bacterium *Thermus aquaticus*, pre-mixed with a Taq Hot-start antibody and produced using a recombinant eukaryotic expression system. This unique production method ensures the enzyme is completely free of *E. coli* DNA contamination, making it the ideal choice for sensitive PCR applications where even trace levels of bacterial DNA could compromise assay accuracy. In addition, Glycerol-Free Non-Bac HS Taq Polymerase (HC) is fully compatible with the production of lyophilized or air-dried qPCR and RT-qPCR reagents that are stable at ambient temperatures. For optimal performance, the enzyme should be combined with a suitable reaction buffer, primers, and probes prior to lyophilization or air-drying.

Kit Components

Table 1.

Reagent
Glycerol-Free Non-Bac HS Taq Polymerase (HC) , 50 U/µL

Associated Products

Product	Cat. No.
Lyo-Ready qPCR Buffer, 2.5x	MDX022
Lyo-Ready qPCR Buffer w/o Excipients, 4x	MDX061
dNTP Mix, 100mM	MDX051

User Guidelines

Thawing during transportation does not affect the product performance. Prior to use or storing at -20 °C, the thawed Glycerol-Free Non-Bac HS Taq Polymerase (HC) must be thoroughly mixed by 10 inversions.

To optimize the final concentration of Glycerol-Free Non-Bac HS Taq Polymerase (HC), titrate in the range of 0.04 to 0.4 U/µL per reaction.

Addition of non-ionic detergents, or a suitable alternative, to the reaction mix can prevent adsorption and stabilize Glycerol-Free Non-Bac HS Taq Polymerase (HC) during PCR reaction.

Technical Support

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

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