

Liquid Stable Flex DNA qPCR Mix

Product Handling Guide

Shipping:	At ambient temperature (<25 °C)
Catalog number:	MDX360
Batch No.:	See vial
Concentration:	5x

Store at -20°C

Storage and stability:

Liquid Stable Flex DNA qPCR Mix is shipped at ambient temperature (<25°C). On arrival, store at -20°C before use. Repeated freeze/thaw cycles should be avoided. Solutions should be mixed/equilibrated after each thawing to avoid phasing.

Safety precautions:

Read and understand the SDS (Safety Data Sheets) before handling the reagents. The SDS (Safety Data Sheets) are available upon request.

Quality control:

Meridian operates under ISO 13485 Quality Management System. Liquid Stable Flex DNA qPCR Mix is tested functionally before its release (see Test Release document).

Notes:

For research or further manufactured use only.



Description

Liquid Stable Flex DNA qPCR Mix is a combination of the latest advances in buffer chemistry and PCR enhancers and stabilizers, together with an antibody-mediated hot-start polymerase and containing dUTP. Liquid Stable Flex DNA qPCR Mix has been designed to be stable for at least 12 months at ambient temperature. In addition, it has been optimized for highly reproducible and accurate assay, delivering exceptional performance in multiplex assays, even under fast thermal cycling conditions. Liquid Stable Flex DNA qPCR Mix formulation is compatible to applications where reduction of false positives from cross-over contamination is critical.

Kit components

Table 1

Component
Liquid Stable Flex DNA qPCR Mix

Users Guidelines

Master mix preparation

Recommended reagent volumes per 20 µL qPCR mix are given in Table 2.

Table 2

Reagent	Volume
Liquid Stable Flex DNA qPCR Mix, 5x	4 µL
Primer-Probe Mix, 20x*	1 µL
Template	As required
Water	As required
Total volume	Up to 20 µL

* Primer and probe concentration must be optimized

Pre-assembled mix preparation

Recommended reagent volumes per 100 reactions of 20 µL qPCR mix are given in Table 3.

Table 3

Reagent	Volume
Liquid Stable Flex DNA qPCR Mix, 5x	400 µL
Primer-Probe Mix, 20x*	80 µL
Water	20 µL

Store the pre-assembled mix at ambient temperature (<25°C) away from light. If stored correctly the mix will retain full activity for 1 week.

Assay setup

The qPCR conditions in Table 4 are suitable for amplicons of up to 200 bp. These cycling parameters have been optimized for Liquid Stable Flex DNA qPCR Mix on a number of platforms, however they can be varied to suit different machine-specific protocols.

Always include non-template controls, to monitor the potential occurrence of false-positive amplifications.

Table 4

Step	Temperature	Time	Cycles
Polymerase activation	95 °C	2 min	1
Denaturation	95 °C	10s	45
Annealing/Extension*	60 °C	30s	

*When multiplexing, the annealing/extension time can be extended up to 60 seconds and/or the annealing/extension temperature can be increased up to 65°C.

Technical Support

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