

# Liquid Stable Flex RNA/DNA qPCR Mix

## Product Handling Guide

|                 |          |
|-----------------|----------|
| Shipping:       | Blue Ice |
| Catalog number: | MDX988   |
| Batch No.:      | See vial |
| Concentration:  | 5x       |

Store at -20°C



### Storage and stability:

Liquid Stable Flex RNA/DNA qPCR Mix is shipped with blue ice. On arrival, store at -20°C before use. After thawing, Liquid Stable Flex RNA/DNA qPCR Mix can be stored at ambient temperature (<20°C) for several months. 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 RNA/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 RNA/DNA qPCR Mix is a combination of the latest advances in buffer chemistry containing dUTP and PCR enhancers and stabilizers, together with reverse transcriptase and an antibody-mediated hot-start polymerase. Liquid Stable Flex RNA/DNA qPCR Mix has been designed to be stable 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 RNA/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 RNA/DNA qPCR Mix, 5x |

## Users Guidelines

### Master mix preparation

Recommended reagent volumes per 20 µL RT-qPCR reaction are given in Table 2.

Table 2

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

\* Primer and probe concentration must be optimized

## Assay setup

The RT-qPCR conditions in Table 3 are suitable for amplicons of up to 200 bp. These cycling parameters have been optimized for Liquid Stable Flex RNA/DNA qPCR Mix on a number of platforms, however they can be varied to suit different machine-specific protocols.

Always include no-template controls, to monitor the potential occurrence of false-positive amplifications.

Table 3

| Step                  | Temperature | Time   | Cycles |
|-----------------------|-------------|--------|--------|
| Reverse Transcription | 50 °C       | 10 min | 1      |
| 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](mailto:mbi.tech@meridianlifescience.com)