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Catalog Number	600567
Product Name	Mx3000P/Mx3005P QPCR System β -Actin Installation Qualification Test Plate
Expiration Date	2023-09-30
Quantity	1 96-well plate
Certified By	Dana Faver
Quality Controlled By	Matt Huffman
Shipping Conditions	Shipped on dry ice.

Storage Conditions

Store at -20°C upon receipt. Do not remove the foil wrapper until immediately before performing the QPCR run.

Note: Wear chemical-resistant powder-free gloves whenever handling the plate. This will ensure that no finger oils or other debris are transferred to the optical seal.

Description

The Installation Qualification Test Plate is a 96-well plate containing predisposed QPCR reagents used for performing the instrument qualification test on the Mx3000P and Mx3005P QPCR systems. A pass result on the qualification test indicates that the QPCR instrument is functioning within specifications.

Directions for Use

Preparing for the Qualification Test

Note: The Mx3000P or Mx3005P instrument and software must be set up, according to the instructions in the system Setup and User's Guide, prior to running the Qualification Test.

1. Just before starting the Instrument Qualification Test run, thaw the plate at room temperature for 15-30 minutes, leaving the plate sealed in the foil wrapper while thawing.
2. After thawing, remove the foil wrapper and then mix the contents of the wells by completing the following actions five times:
 - Invert the plate. Use a sharp, swift, downward motion to move the liquid to the seal on top of each well. Observe the liquid to verify that the liquid has moved from the bottoms to the tops of the tubes.
 - Re-invert the plate, and use the same motion to return the liquid to the bottom of each well, again verifying liquid movement before proceeding.
3. After completing five mixing cycles, collect the liquid at the bottom of the wells. Brief centrifugation of the plate at 1000 rpm is highly recommended, in order to dislodge any bubbles and to collect the liquid.

If a plate centrifuge is not available, shake the liquid down to the bottom of the tubes (using the same motion described above for mixing). Shake-down the plate until the majority of the liquid is at the bottom of the tube and only minimal amounts of liquid are retained on the tube seal or sides. It is important to shake-down any noticeable liquid on the tube seal (e.g. visible semi-circles or crescent shapes). Small amounts of liquid spray retained on the tube sides should not affect the test results.

4. Prior to loading the plate, verify that no bubbles are present at the bottoms of the tubes, beneath the liquid. While it is critical to remove any bubbles from the bottom of the tubes, small bubbles near the liquid meniscus should not affect the test results.

Important: Bubbles trapped at the bottom of the tubes will interfere with fluorescence readings, invalidating the test.

Test Conditions

The plates are used in a qualification test on three different Mx3000P or Mx3005P QPCR systems to verify consistent performance on multiple functioning instruments.

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