

LAMP Discovery Pack

Description

The LAMP Discovery Pack is a bundle for evaluation purposes of 3 top-performing products for LAMP applications. The pack includes:

1. Isotherm3G DNA Polymerase, an engineered polymerase capable of simultaneous reverse transcription and LAMP amplification in a single step, allowing streamlined LAMP and RT-LAMP workflows. It includes a heat-activation feature which enables room-temperature setup without need for ice and reduces unspecific reactions.
2. Fast Bst Polymerase Hot-Start, our go-to enzyme for standard LAMP protocols. This heat-activated Bst polymerase offers excellent amplification speed, robust performance, and easy integration into existing workflows, perfect for DNA-targeted LAMP reactions. The heat-activation feature allows room temperature setup without need for ice and reduces unspecific reactions.
3. Fast Bst RT Mix, a well-balanced mix for RT-LAMP applications, combining Bst polymerase with reverse transcriptase for reliable RNA detection. This formulation offers a more traditional two-enzyme approach than Isotherm3G, making it ideal for comparison and optimization.

Instructions

Instructions for the following products are included in this discovery pack and can be found on our website:

Isotherm3G DNA Polymerase:

https://www.medixbiochemica.com/media/medix/amfile/attach/Manual_8701_Isotherm3G_DNA_Polymerase.pdf

Fast Bst Polymerase Hot-Start:

https://www.medixbiochemica.com/media/medix/amfile/attach/Manual_8201_Fast_Bst_Polymerase_Hot-Start.pdf

Fast Bst RT Mix:

https://www.medixbiochemica.com/media/medix/amfile/attach/Manual_8601_Fast_Bst_RT_Mix.pdf

Kit Components

Component	Size
Isotherm3G DNA Polymerase (#8701S)	
Isotherm3G DNA Polymerase	1 x 0.20 mL
10x Isotherm3G reaction buffer	1 x 1 mL
Fast Bst Polymerase Hot-Start (#8201S)	
Fast BST Polymerase Hot-Start	1 x 0.20 mL
10x Fast Buffer A	1 x 0.50 mL
5x Fast Buffer B	1 x 1.00 mL
Fast Bst RT Mix (#8601S)	
Fast Bst Mix (2x)	1 x 1.25 mL
20x Fluorescent dye	1 x 0.125 mL
20x RTase Amp	1 x 0.20 mL

Storage and Shipment

Transport with cool packs. The reagents should be stored at -20°C upon arrival. The reagents are stable until the expiration date if stored correctly.

Additional information and technical resources are available on our website at:
info.medixbiochemica.com/resources.



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