



LAMP Micro Bead, Lyophilized

Product Number: PCM68

Shipping and Storage

2-8°C.

Components

Component	PCM68	PCM68
	16rxns	48rxns
LAMP Micro Bead, Lyophilized	2×8 well strip	1 vial

Description

LAMP Micro Beam, Lyophilized is a Lyophilized Micro Bead premix suitable for probe based detection of DNA viruses. It contains Bst DNA polymerase, PCR buffer, dNTPs, Mg²⁺, as well as enhancers and stabilizers. Easy and fast to use, only primer probes need to be added, and the extracted nucleic acid sample can be amplified on the machine. Bst DNA Polymerase is a recombinant enzyme purified through expression in Escherichia coli. Its gene is derived from Bacillus stearothermophilus and has undergone partial point mutations based on the original sequence. This protein has stronger 5'→3' DNA polymerase activity, chain displacement activity, reverse transcription activity, and no 5'→3' exonuclease activity.

Heat inactivation can be achieved by incubating at 80°C for 5 minutes.

Application

Applied to DNA loop mediated isothermal amplification (LAMP), multiple displacement amplification (MDA), whole genome amplification (WGA), etc

Note

1. This product can be stored at 2-8°C for at least 1 year. If stored for a longer period of time, it is recommended to store at -20°C.
2. Please check the morphology of the Lyophilized Micro Beads before use. The freeze-dried morphology should be white or almost white spherical.
3. After reconstitution, gently blow with a gun until completely dissolved, and visually observe that the solution is in a clear state.
4. Try to avoid opening the vacuum packaging bag and storing it under secondary vacuum or placing it directly in an air environment.
5. When preparing the detection reaction system for this product, please use a super clean workbench. During the preparation process, please use a sterilization gun head and reaction tube. If conditions permit, it is recommended to use a dedicated pipette and a gun head with a filter cartridge in the laboratory.

Protocol

The following examples are the LAMP Micro Beam, Lyophilized reaction system and reaction conditions. In practical operation, the primer and template dosage should be adjusted according to different templates and primer structures.

1. Lyophilized Micro Bead PCR reaction system for a 8 well strip

Reagent	50 µL Reaction system
LAMP Micro Beam, Lyophilized	-
Primer probe Mix	X µL
Template	X µL

Note: 1) After adding the system, ensure that there are no bubbles in the reaction system.

2) Vortex oscillation and mixing, briefly centrifuge to collect the solution on the tube wall to the bottom of the

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tube.

3) LAMP Micro Beam, Lyophilized: 1 Bead/reaction. Please add probes and templates as needed according to the above reaction system, so that the sum of probe and template volumes is 50µL.

2. Lyophilized Micro Bead PCR reaction system for a vial

Reagent	50 µL Reaction system
LAMP Micro Beam, Lyophilized	-
Primer probe Mix	X µL
Template	X µL

Note: 1) After adding the system, ensure that there are no bubbles in the reaction system.

2) Vortex oscillation and mixing, briefly centrifuge to collect the solution on the tube wall to the bottom of the tube.

3) LAMP Micro Beam, Lyophilized: 1 Bead/reaction. Please add probes and templates as needed according to the above reaction system, so that the sum of probe and template volumes is 50µL.

PCR reaction program

Temperature	Time	Cycles
60°C	3 min	} 20
30°C	30 s*	

Note: 1) This program is set with the ABI-Q5 fluorescence quantitative PCR instrument as a reference.

2) Set signal acquisition at the marked location.