

ProbeMaster® Lyo Eva488, 5x

<http://hk.lumiprobe.com/p/probemaster-mix-eva488-lyo>

ProbeMaster® Lyo Eva488 is a lyophilized reaction mixture containing all the necessary components for polymerase chain reaction (PCR) and the intercalating dye Eva488. The mixture composition is optimized to achieve optimal results in terms of processivity and amplification specificity. To reconstitute the mixture into a liquid form, add the specified amount of water.

The ProbeMaster® Lyo Eva488 reaction mixture is suitable for both real-time PCR using the intercalating dye Eva488 and DNA amplification, followed by detection of results by electrophoresis. Due to the absence of UDG/dUTP in the composition, the reaction mixture can be used for routine cloning and other tasks that require further use of the PCR product after amplification.

Reaction mixture composition

- HS Taq DNA polymerase;
- Mixture of deoxynucleoside triphosphates;
- PCR buffer (contains Mg²⁺);
- Intercalating dye Eva488;
- Cryoprotectants

Key characteristics

- One tube of lyophilized mixture, diluted to 450 µL with water, is sufficient for 100 reactions of 25 µL each.
- The mixture is completely ready for use. To set up the reaction, only the DNA sample, primers, and water need to be added to the mixture, which significantly saves time. The ready-to-use reaction mixture format reduces the risk of sample contamination.
- Genomic, viral, plasmid DNA, etc., can be used as a template.
- Contains a highly processive Hot-Start Taq polymerase with 5 min activation at 95 °C. The HS Taq DNA polymerase used is a complex of monoclonal antibodies with the enzyme. Heating the sample during the first PCR cycle inactivates antibodies in the complex and activates the enzyme. The "Hot-Start" technology prevents nonspecific amplification and primer dimer formation.
- HS Taq DNA polymerase has 5'-3' polymerase and 5'-3' exonuclease activity; it also possesses transferase activity, which adds an adenine residue to the 3' ends of double-stranded DNA, allowing the use of PCR products for TA cloning.
- The mixture contains the intercalating dye Eva488. Eva488 is a dimeric acridine that fluoresces when bound to double-stranded DNA, exhibits bright fluorescence, and does not inhibit the reaction. Eva488 is a complete structural analog of the EvaGreen® dye. The fluorescence of the Eva488 dye is detected in the FAM channel.
- Does not contain UDG and dUTP.

Applications

Real-time PCR, PCR with electrophoresis detection, PCR with cDNA samples after reverse transcription, genotyping, colony PCR, product generation for TA cloning, etc.

Equipment compatibility

Compatible with any thermal cycler.

PCR reaction mixture selection table

Name	Reaction mixtures for quantitative PCR (RT-PCR)				Application
	dsGreen	Eva488	ROX	UDG, dUTP	
ProbeMaster® Lyo UDG Cat.# •0514	—	—	—	✓	qPCR with DNA probes or intercalating dye
ProbeMaster® Lyo ROX Cat.# •0114	—	—	✓	—	
ProbeMaster® Lyo Eva488 Cat.# •0614	—	✓	—	—	
ProbeMaster® Lyo Eva488 ROXCat.# •0714	—	✓	✓	—	
ProbeMaster® Lyo dsGreen Cat.# •0814	✓	—	—	—	
Reaction mixture for standard PCR					
ProbeMaster® Lyo GEL Cat.# •0024	—	—	—	—	PCR followed by gel electrophoresis analysis, contains dye for application to gel
ProbeMaster® Lyo GEL UDGCat.# •0524	—	—	—	✓	
Universal reaction mixture					
ProbeMaster® Lyo UNI Cat.# •0534	—	—	—	—	qPCR with DNA probes/intercalating dye or standard PCR followed by gel electrophoresis analysis

外观:

溶解度: 水

质量控制: 功能测试

储存条件: 储存: 4 °C 下 12 个月 (自交付之日起)。

运送: 在 25 °C 以下的温度下可储存长达 21 天。

复溶成液体后, 可在 4 °C 下储存最多 30 天, 或在保质期内冷冻并储存在 -20 °C 下。重构的混合物最多可经历五次冻融循环。

法律声明: 本产品仅供研究目的提供和销售。本产品并未经过食品、药品、医疗器械、化妆品等领域的安全性和效力测试, 且未经明示或暗示授权用于其他任何用途, 包括但不限于体外诊断、人类或动物用途, 以及商业用途。

EvaGreen® 是 Biotium Inc. 的注册商标。ProbeMaster® 是 Lumiprobe 的注册商标。