

ProbeMaster® Lyo Eva488 ROX, 5x

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

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

The ProbeMaster® Lyo Eva488 ROX master mix is suitable for real-time PCR due to the intercalating dye Eva488. It allows accurate determination of the DNA matrix content in the sample due to the normalizing dye ROX in its composition. The mixture can also be used for DNA amplification with subsequent electrophoresis detection.

Master mix composition

- HS Taq DNA polymerase;
- Deoxynucleoside triphosphates;
- PCR buffer (contains Mg²⁺);
- Eva488 intercalating dye;
- ROX reference dye;
- Cryoprotectants

Key characteristics

- One tube of the lyophilized mixture after dilution in 450 µL of water is enough for 100 reactions with a volume of 25 µL.
- The mixture is completely ready for use. Only the DNA sample, primers, and water must be added to the mixture to perform the reaction. It saves considerable time for reaction. The ready-to-use format of the master mix reduces the risk of sample contamination.
- Genomic, viral, plasmid DNA, cDNA after reverse transcription, etc., can be used as a matrix.
- Contains high-processive Hot-Start Taq polymerase with activation for 5 min at 95 °C. The HS Taq DNA polymerase is an enzyme complex with a monoclonal antibody. Heating the sample in the first PCR cycle inactivates the 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 has transferase activity: it attaches an additional adenine residue to the 3' ends of double-stranded DNA, allowing PCR products to be used for TA cloning.
- The master mix contains the intercalating dye Eva488. Eva488 is a dimeric acridine that brightly fluoresces upon binding to double-stranded DNA and does not inhibit the reaction. The fluorescence of Eva488 dye is detected by the FAM channel.
- For signal normalization, the reference dye ROX is included in the master mix. The concentration of ROX has been specifically optimized to work on most real-time amplifiers available on the market.
- Does not contain UDG and dUTP.

Applications

Real-time PCR, PCR with electrophoresis detection, PCR with cDNA samples after reverse transcription, genotyping, PCR for colony verification.

Equipment compatibility

Compatible with all types of amplifiers.

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 粉红色的平板电脑

溶解度

质量控制 功能测试

储存: 4°C 下 12 个月 (自交付之日起)。

运输: 在 25°C 温度下最多 21 天。

重新配制为液体形式后, 可在 4°C 下储存最多 30 天, 或在有效期内冷冻并储存在 -20°C 下。重构的混合物最多可经历五次冻融循环。

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。