

ProbeMaster® Lyo UDG, 5×

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

ProbeMaster® Lyo UDG is a lyophilized reaction mixture containing all the necessary components for PCR. To reconstitute the mixture into a liquid form, simply add the specified amount of water. The composition of the mixture includes Hot-start polymerase and is optimized to achieve optimal amplification processivity and specificity. Uracil-DNA glycosylase eliminates contamination from amplicons generated in prior reactions, preventing false-positive results.

The ProbeMaster® Lyo UDG mixture is suitable for both quantitative PCR and DNA amplification followed by electrophoresis detection. For qPCR reactions, fluorescence detection should use a DNA probe labeled with a fluorophore and quencher (hydrolyzable probes, molecular "beacons", "scorpion" primers) or two probes labeled with fluorophores that form a FRET pair. In addition to DNA probes, the intercalating dye [dsGreen](#) can be used for fluorescence detection.

One tube of lyophilized mixture, after dilution in 450 µL of water, is sufficient for 100 reactions of 25 µL each.

Reaction mixture composition

- HS Taq DNA polymerase;
- Uracil-DNA glycosylase (UDG);
- Deoxynucleoside triphosphate mixture (including dUTP);
- PCR buffer (contains Mg²⁺ at a concentration of 3 mM in 1× reaction mixture);
- Cryoprotectants

Applications

Qualitative and quantitative PCR with detection of amplification products both in real-time and using gel electrophoresis; reverse transcription PCR.

For cloning and other applications requiring further work with the PCR product after amplification, we recommend using our [ProbeMaster® Lyo UNI](#) product, which does not contain dUTP.

Equipment compatibility

Compatible with all types of thermal cyclers.

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 白色药片

溶解度

溶解度

质量

控制 功能测试

控制

控制

控制

储存: 4 °C 下 12 个月 (自交付之日起)。

运输: 在 25 °C 以下的温度下最多可储存 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。

附件

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。

声明

声明

ProbeMaster® 是 Lumiprobe 的注册商标。