

## ProbeMaster® Lyo UDG, 5×

<http://hk.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 Mg<sup>2+</sup> 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	
<a href="#">ProbeMaster® Lyo UDG Cat.# •0514</a>	—	—	—	✓	qPCR with DNA probes or intercalating dye
<a href="#">ProbeMaster® Lyo ROX Cat.# •0114</a>	—	—	✓	—	
<a href="#">ProbeMaster® Lyo Eva488 Cat.# •0614</a>	—	✓	—	—	
<a href="#">ProbeMaster® Lyo Eva488 ROXCat.# •0714</a>	—	✓	✓	—	
<a href="#">ProbeMaster® Lyo dsGreen Cat.# •0814</a>	✓	—	—	—	
	<b>Reaction mixture for standard PCR</b>				
<a href="#">ProbeMaster® Lyo GEL Cat.# •0024</a>	—	—	—	—	PCR followed by gel electrophoresis analysis, contains dye for application to gel
<a href="#">ProbeMaster® Lyo GEL UDGCat.# •0524</a>	—	—	—	✓	
	<b>Universal reaction mixture</b>				
<a href="#">ProbeMaster® Lyo UNI Cat.# •0534</a>	—	—	—	—	qPCR with DNA probes/intercalating dye or standard PCR followed by gel electrophoresis analysis

---

外观: 白色藥片

溶解度: 水

质量控制: 功能測試

储存条件: 儲存: 4 °C 下 12 個月 (自交付之日起)。

運送: 在 25 °C 以下的溫度下可儲存長達 21 天。

復溶成液體後, 可在 4 °C 下儲存最多 30 天, 或在保質期內冷凍並儲存在 -20 °C 下。重構的混合物最多可經歷五次凍融循環。

法律声明: 本產品僅供研究目的提供和銷售。本產品並未經過食品、藥品、醫療器械、化妝品等領域的安全性和效力測試, 且未經明示或暗示授權用於其他任何用途, 包括但不限於體外診斷、人類或動物用途, 以及商業用途。

ProbeMaster® 是 Lumiprobe 的註冊商標。