

ProbeMaster® Lyo UDG, 5x

<http://de.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 1x 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

Allgemeine Eigenschaften

Erscheinungsform:

Löslichkeit: Wasser

Qualitätskontrolle: Funktionstest

Lagerungsbedingungen:

Rechtliche Hinweise: Dieses Produkt wird nur für Forschungszwecke angeboten und verkauft. Es wurde nicht auf Sicherheit und Wirksamkeit in Nahrungsmitteln, pharmazeutischen Produkten, medizinischen Vorrichtungen, Kosmetika sowie für gewerbliche oder andere Einsatzzwecke getestet. Der Verkauf gewährt oder impliziert nicht die Erlaubnis zur Verwendung in der In-vitro-Diagnostik, bei der Herstellung von Nahrungsmitteln oder pharmazeutischen Produkten, in medizinischen Vorrichtungen sowie in kosmetischen Erzeugnissen.

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