

DryDrops® PCR UDG, Single Assay PCR Lyophilized Beads

<http://cn.lumiprobe.com/p/udg-pcr-lyophilized-beads>

DryDrops®UDG lyophilized beads are a pre-prepared and packaged form of the polymerase chain reaction (PCR) reaction mixture. Uracil-DNA glycosylase excludes amplicon contamination from previous reactions and false-positive results. Each lyophilized PCR ball is a dry granule containing a ready-made reaction mixture with all the necessary components for PCR with a volume of 25 µL:

- hot-start Taq polymerase;
- uracil-DNA glycosylase (UDG);
- mixture of deoxynucleoside triphosphates (including dUTP);
- optimized PCR buffer (contains 3 mM Mg²⁺ in 1× of the reaction mixture);
- protectors for lyophilization.

The composition of the reaction mixture is optimized to obtain ideal results in terms of processivity and amplification specificity. DryDrops® provide greater reproducibility between reactions by minimizing reaction preparation steps and reducing the potential for mixing errors and sample contamination. Each batch of DryDrops® undergoes functional testing to ensure reproducibility from batch to batch.

DryDrops® are suitable for real-time PCR detection, including quantitative analysis (with fluorescent probes or intercalating dye, e.g., [Eva488](#)), as well as for DNA amplification followed by electrophoresis detection.

For cloning tasks and other applications that require further work with the PCR product after amplification, we recommend using our dUTP-free [DryDrops® PCR](#) product.

DryDrops® UDG lyophilized beads are compatible with all types of cyclers and can be used for PCR both in cyclers with classic thermoblocks for PCR tubes and in amplifiers with cartridges.