

DryDrops® qPCR, Single Assay qPCR Lyophilized Beads

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

Single Assay qPCR Lyophilized Beads are a pre-formulated and pre-dispensed reaction mixture for carrying out polymerase chain reaction (PCR). Each lyophilized bead contains all the necessary components for PCR and qPCR with a volume of 25 µL:

- hot-start Taq polymerase;
- mixture of deoxynucleoside triphosphates (dNTPs);
- optimized buffer for PCR (contains Mg^{2+} with a concentration of 3 mM in 1× reaction mixture);
- protectors for lyophilization.

The composition of the reaction mixture is optimized to obtain ideal results in terms of processivity and specificity of amplification. Lyophilized beads provide excellent reproducibility between reactions by minimizing pipetting steps and reducing the likelihood of pipetting errors and sample contamination. Each batch of the Single Assay qPCR Lyophilized Beads undergoes functional testing to ensure batch-to-batch reproducibility.

The beads 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 with subsequent detection of results by electrophoresis. The beads are also suitable for routine cloning tasks and other applications that require further handling of the PCR product after amplification.

Single Assay qPCR Lyophilized Beads are compatible with any type of amplifier and can be used for PCR in amplifiers with classic thermal blocks for PCR tubes and amplifiers with cartridges.

The lyophilized format allows storing the PCR mixture for up to 12 months at temperatures up to 4 °C.

We offer Single Assay qPCR Lyophilized Beads in vials of 10 pcs. (**11534**), vials of 50 pcs. (**21534**), and PCR-strips of 8 pcs. (**31534**).

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