

DryDrops® PCR, Single Assay PCR Lyophilized Beads

<http://www.lumiprobe.com/p/pcr-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 real-time PCR with a volume of 25 µL:

- hot-start Taq polymerase;
- mixture of deoxynucleoside triphosphates (dNTPs);
- optimized buffer for PCR (contains Mg²⁺ 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 PCR 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 PCR 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 PCR Lyophilized Beads in vials of 10 pcs. (**11534**) and vials of 50 pcs. (**21534**).

General properties

Appearance: white smooth spheres

Storage conditions: 12 months from delivery at temperature up to 4 °C protected from light. Transportation: up to 7 days at temperatures up to 25 °C or at temperatures up to 4 °C within the entire shelf life.

Legal statement: This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.