

BioEasy 5×qPCR Master Mix (Lyophilizable)



BioEasy 5×qPCR Master Mix is a DNA-based PCR assay kit explicitly developed for product lyophilization processes. This product contains a new fast-starting enzyme produced by the Bioer, which can effectively inhibit the non-specific amplification of primers at low temperatures and improve the specificity of the amplification reaction. This product contains an optimized buffer system, dNTPs and Mg²⁺. It optimizes factors that can effectively enhance the amplification efficiency of the PCR reaction suitable for fluorescence probe-labelled specific detection system.

BioEasy 5×qPCR Master Mix is ideal for Bioer QuantGene 9600 (FQD-96C). In addition, the amplification time can be shortened to 25min, significantly reducing the reagent detection time.

★ Product Features

Easy to apply: Ready-to-use master mix, low glycerol and patented lyophilized protectant formulation;

Excellent performance: Good lyophilized form, good product stability after reconstitution, protection of probe and primer activity during the preparation of lyophilized nucleic acid detection reagents, and support the transportation of detection reagents at room temperature for one month after trial;

Fast amplification speed: Amplification speed up to 2s/kb; With Bioer real-time PCR instrument, the detection time of DNA is within 25 minutes (45 cycles);

Good tolerance: Suitable for samples with many inhibitors, such as humic acid, NaCl, ethanol, and isopropanol.

▮ The application case

🌀 Case one

The experiment using BioEasy 5×qPCR Master Mix (Lyophilizable) to accelerate for three days, five days, seven days, and eight days at 37°C and 2-8 °C tested the product's performance.

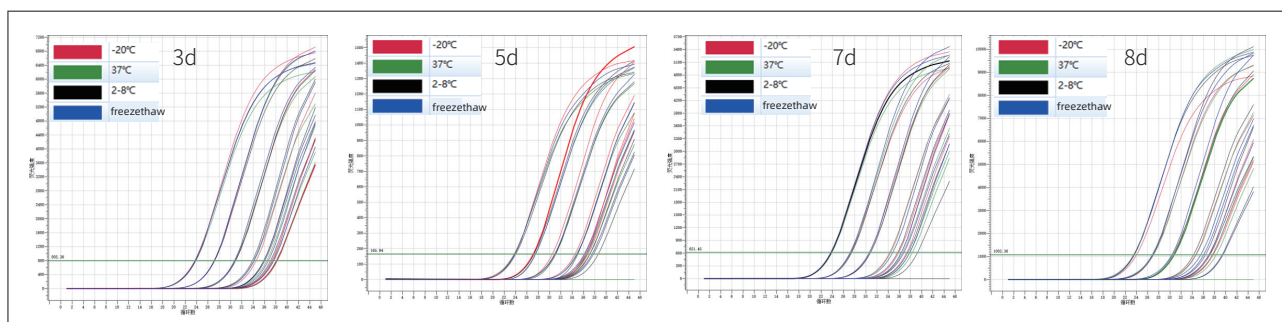


Figure 1. experimental amplification of product stability graph

▮ Results: The results showed that the acceleration and freeze-thaw experiments had no significant effect on the performance of BioEasy 5×qPCR Master Mix (Lyophilizable).

Case two

This case chose Supplier A and BioEasy 5×qPCR Master Mix (Lyophilizable) to lyophilized genetic detection reagents, respectively, to test their performance after freeze-drying. The genetic detection reagents are Feline herpesvirus (FH1) and Feline parvovirus (FPV).



Figure 2. Effect of the product after freeze-dried

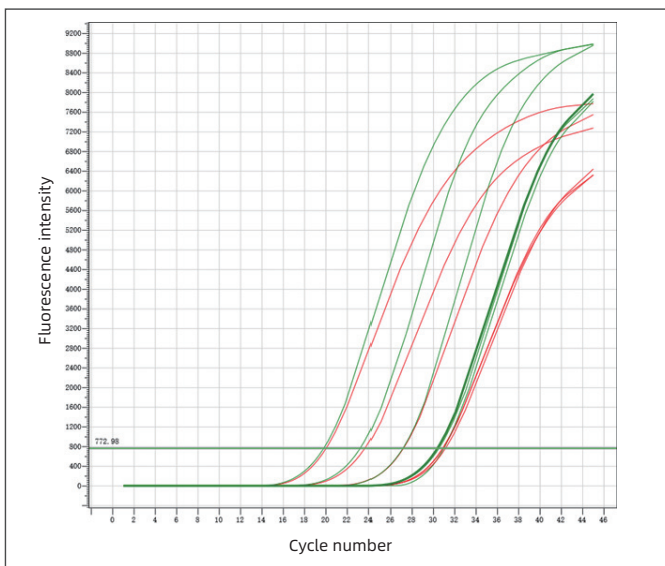


Figure 3. Amplification curve of FH1

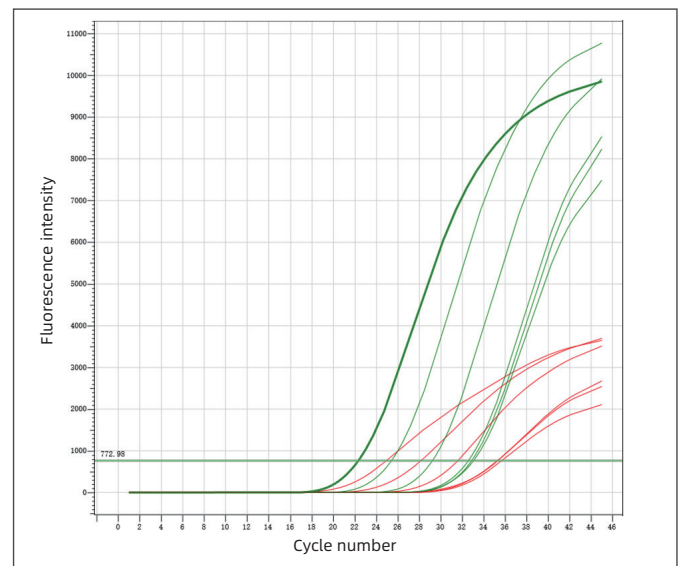


Figure 4. Amplification curve of FPV

Note: The green curve is BioEasy 5×qPCR Master Mix (Lyophilizable); The red curve is the lyophilized reagent of Supplier A.

Results: The results showed that BioEasy 5×qPCR Master Mix (Lyophilizable) lyophilized reagent performed well with supplier A, had good product uniformity, and did not shrink or collapse. In addition, BioEasy 5×qPCR Master Mix (Lyophilizable) lyophilized reagent is comparable in performance to Supplier A or superior to Supplier A in some genetic tests.

Product Specification

Name	Cat#	Specification	Price	Note
BioEasy 5×qPCR Master Mix (Lyophilizable)	BSB76S1	200T	Inquiry	Store at -20 °C



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