

RT-qPCR Lyophilized Reagents

Glycerol-free RT-qPCR mix (CAT#13775)

Hieff Unicon® V Lyo-Multiplex One Step RT-qPCR Kit (with MgCl₂)

A glycerol-free, ready-to-use RT-qPCR reagent which contains thermostable reverse transcriptase, hot-start Taq DNA polymerase, reaction buffer, dNTPs, magnesium chloride, and lyophilization protectants. In addition, factors that effectively inhibit non-specific PCR amplification and enhance the efficiency of multiplex qPCR reactions are included. This reagent is the ideal choice for developing multiple RT-qPCR diagnostic products that can be transported and stored at room temperature. It can be widely applied in the development of products in various fields such as pathogen detection, animal diseases detection, food safety, and so on.

►► Advantages

01

The performance is equivalent to liquid reagents.

02

Stable at room temperature

03

Supplying lyophilization process guidance

►► Performance

Instrument	ABI 7500	Vol.	25 μL
Template	Pseudovirus	Concentration	10 ⁵ 、10 ⁴ 、10 ³ copies/mL
Cycling	50°C 10 min; 95°C 5 min; 45 cycles (95°C 15 sec; 60°C 15 sec)		

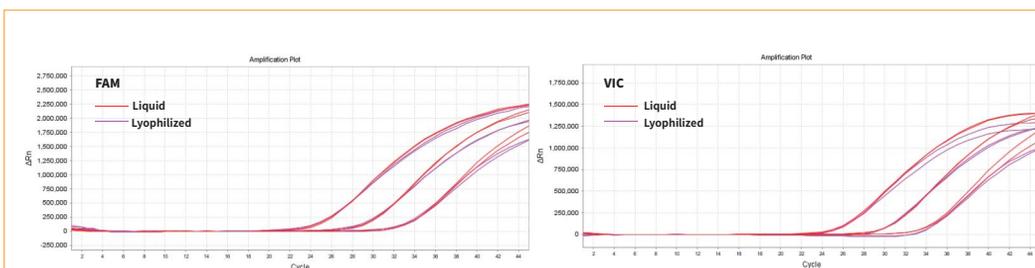


Figure 1. Multiple RT-qPCR amplifications using pseudovirus templates show that the lyophilized powder and liquid reagents exhibit the same performance.



37°C for 21 days

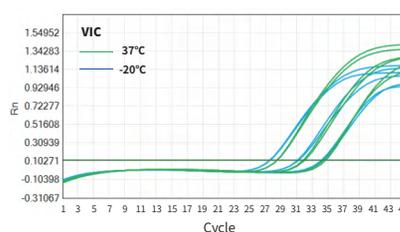
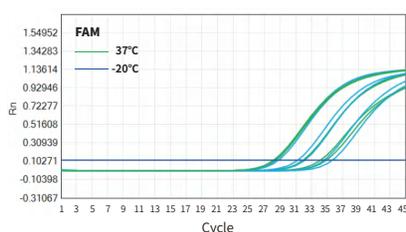


Figure 2.

After 21 days of storage at 37°C, the lyophilized powder still exhibits good appearance and performance

RT-qPCR Microsphere (CAT#13679)

Hieff Unicon® Lyo-One Step RT-qPCR Master Mix Microsphere



Stable at
Room Temperature



Fast Redissolution
Simple Operation



Accurate
Quantification



Multiple Target
Detection

Lyophilization protectants (CAT#13743)

To enable successful lyophilization, improve the reconstitution and stability of lyophilized products, or give them an appealing appearance, it is necessary to incorporate certain additional substances into the reagents, which are known as lyoprotectants. This product primarily consists of substances such as trehalose, PEG, glycerol, and others.



Without affecting
performance



Compatible with
most reagents



Supplying lyophilization
process guidance

Product

Name	Catalog No.	SKU 1	SKU 2	SKU 3
Hieff Unicon® V Lyo-Multiplex One Step RT-qPCR Kit (with MgCl ₂)	13775ES	100 T	1,000 T	100,000 T
Hieff Unicon® V Lyo-Multiplex One Step RT-qPCR Master Mix Microsphere	13679ES	8 T	100T	1,000T
Lyophilization protectants	13743ES	100 T	1,000 T	100,000T
Hieff UNICON® HotStart E-Taq DNA Polymerase, Glycerol-free	14316ES	50 U	1,000 U	10 KU
Hifair® V Reverse Transcriptase, Glycero-free	11301ES	3 KU	12 KU	120 KU
Uracil DNA Glycosylase (UDG), Glycerol-Free	10707ES	500 U	5 KU	10 KU
Murine RNase Inhibitor (200 U/μL, Glycerol-free)	10703ES	2 KU	10 KU	100 KU
dNTP Mix (10 mM each)	10125ES	1 mL	25 mL	400 mL
dUTP Mix (100 mM)	10128ES	400μL	1 mL	25 mL

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