

Cat. No: P2901, 100 rxns/20- μ l rxn P2902, 1,000 rxns/20- μ l rxn
 P2903, 10,000 rxns/20- μ l rxn

Super Probe ddPCR Mix

For research use only

Components

Component	P2901	P2902	P2903
4X Super Probe ddPCR Mix	1 ml	1 ml \times 5	50 ml

Storage

This reagent can be stored for 2 months at 4°C. For longer storage, it should be kept at -20°C.

Description

Super Probe ddPCR Mix is a 4X concentrated premix for water-in-oil series digital PCR. In use, just add the DNA template, primer and probe to react. This product contains Hotstart Taq DNA polymerase modified by dual-antibody technology. Combined with GDSBio's special ddPCR Buffer, not only the droplet production is stable, but also the sensitivity is high, the differentiation is good, and the multi-probe ddPCR reaction can be carried out. This reagent introduced dUTP/UDG anti-contamination system, which can remove PCR products containing dUTP before PCR reaction, effectively avoid the influence of cross contamination of amplification products on quantification.

The reaction system of this product can be prepared at room temperature without an ice box. The prepared PCR reaction system can be placed at room temperature for 24 hours and the amplification efficiency remains unchanged.

Applications

- Droplet digital PCR (ddPCR)

Features

- Dual-antibody hotstart technology
- dUTP/UDG system
- Stable performance

Protocol

1. Preparation of reaction solution

Prepare the following reaction system on ice:

Component	20- μ l rxn	Final Conc.
4X Super Probe ddPCR Mix	5 μ l	1X
Primer & Probe Mix ^[1]	1 μ l	0.5 μ M & 0.25 μ M
Template DNA	Variable	-

Water, nuclease-free	to 20 μ l	-
----------------------	---------------	---

[1] The optimal range for primers is 0.1~1.0 μ M. In general, the Primer & Probe Mix with a final concentration of 0.5 μ M & 0.25 μ M works well.

2. Setup reaction procedure and perform PCR

Set the thermal cycling conditions according to the following table:

Stage	Temperature	Time	Cycle
Initial Denaturation	95°C	90 sec	1
Denaturation	95°C	10 sec	45
Annealing & Extension	60°C	30 sec	

Note: The above is the main procedure of PCR reaction, please refer to the digital PCR instrument for adjustment.

Important Notes

1. This product is only for scientific research, please read this manual carefully before the experiment.
2. Before the test, please be familiar with and master the operation methods and precautions of the applicable models to be used.

Product Use Limitations

This product is sold exclusively for research purposes and *in vitro* use. Neither the product, nor any individual components, was tested for use in diagnostic applications or for drug development, nor is it suitable for administration to humans or animals. Please refer to the MSDS, available upon request.