

AddProbe qPCR Master with UDG (2x conc.)

Product Information

Product Code 72401U

Provided with AddProbe qPCR Master with UDG (2x conc.) 1.0 mL x 5 tubes

Storage Conditions -10°C ~ -30°C

Stability Stable for 2 years from manufacturing date.

Components of AddProbe qPCR Master with UDG (2x conc.)

AddStart Taq DNA Polymerase, UDG, Tris - HCl (pH8.8), Potassium Chloride, Ammonium Sulfate, MgCl₂, Protein stabilizer and dNTP mixture.

Description

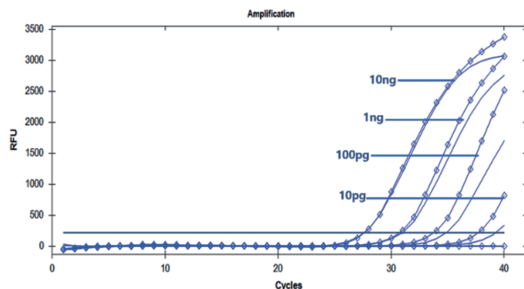
AddProbe qPCR Master with UDG (2x conc.) is a ready - to - use mixture with AddStart Taq DNA Polymerase, UDG, reaction buffer with MgCl₂, dNTPs, PCR enhancer and dNTP mixture for TaqMan Probe based real - time PCR.

AddProbe qPCR Master with UDG (2x conc.) contains UDG (Uracil - DNA Glycosylase) for prevention of carryover contamination from amplification products.

Applications

- TaqMan Probe based Real - time PCR
- Quantitative real - time PCR
- Infectious Disease Detection

Performance



Test of Limit of Detection (LOD) between "AddBioMeditek" and "Competitive A qPCR Product" with 10-fold serial dilutions of human gDNA (10, 1, 0.1 and 0.01ng/rxn).
Target gene: human B2M
Square Line: AddBioMeditek
Linear Line: Competitive A

Nucleic Acid Amplification Procedure

1. Add the following components to a thin-walled PCR tube:

Nuclease - Free Water	x μ l
AddProbe qPCR Master with UDG (2x conc.)	10 μ l
Forward primer (10 μ M)*	0.25 ~ 2 μ l
Reverse primer (10 μ M)*	0.25 ~ 2 μ l
TaqMan Probe (10 μ M)*	0.25 ~ 2 μ l
(Optional) 50x ROX dye	x μ l
DNA template	x μ l
Total reaction volume	20 μ l

* For multi - plex PCR, a user should optimize the concentration of multi-primer set for get good results.

2. PCR cycling

UDG reaction	50°C, 3 min
Initial denaturation	95°C, 5 - 10 min
PCR cycling (35 - 45 cycles)	95°C, 10 - 30 sec 60 - 65°C, 30 - 60 sec

[Note] 50x ROX dye

ROX dye can be included in the reaction to normalize the fluorescent reporter signal, for instruments which are compatible with that option. 50x ROX is a 25 μ M concentration. Use the following table to determine the amount of ROX to use with a particular instrument.

Instrument	Final ROX concentration
AB 7000, 7300, 7700, 7900HT, 7900 Fast, StepOne and StepOnePlus	500 nM
AB 7500, 7500 Fast, Stratagene Mx3000P, Mx3005P and Mx4000	50 nM

Manufacture

애드바이오메디텍

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