



Product Information

Product name	Lolina® L1 Universal TaqMan multiplex qPCR Kit (UDG plus)
Cat.No.	NaM601014
Size	100T/1000T /10000T
Storage and shipping	Storage Conditions: Store at -25°C to -15°C. Shelf life is 18 months.
Application equipment	<p>Applied Biosystems: 5700, 7000, 7300, 7700, 7900HT Fast, StepOne™, StepOne Plus™, 7500, 7500 Fast, ViiA™ 7, QuantStudio™ 3 and 5, QuantStudio™ 6,7, 12k Flex;</p> <p>Bio-Rad: CFX96, CFX384, iCycler iQ, iQ5, MyiQ, MiniOpticon, Opticon, Opticon 2, Chromo4;</p> <p>Eppendorf: Mastercycler ep realplex, realplex 2 s;</p> <p>Qiagen: Corbett Rotor-Gene Q, Rotor-Gene 3000, Rotor-Gene 6000;</p> <p>Roche Applied Science: LightCycler 480, LightCycler 2.0; Lightcycler 96;</p> <p>Stratagene: MX3000P™, MX3005P™, MX4000P™;</p> <p>Thermo Scientific: PikoReal Cyclers; Cepheid: SmartCycler; Illumina: Eco qPCR.</p>

Product description

This product allows for multiplex fluorescence quantitative PCR reactions in a single reaction well, accommodating up to four targets. It has been extensively optimized for multiplex reaction buffer systems to enhance amplification efficiency and facilitate effective amplification of low-concentration templates. This product is suitable for gene typing and multiplex gene quantification analysis. 5 × Lolina® L1 Universal TaqMan qPCR buffer requires additional addition of dNTPs, dUTP, Mg²⁺, Taq enzyme, and UDG enzyme.

Components

Components No.	Components Name	Specifications		
		100T	1000T	10000T
NaM601014-A	5×Lolina® L1 Universal TaqMan qPCR buffer	500 µL	5 mL	50 mL
NaM601014-B	E-Taq (20U/µL)	10 µL	100 µL	1 mL
NaM601014-C	250mM MgSO ₄	125 µL	1.25 mL	12.5 mL
NaM601014-D	25 mM dNTPs	60 µL	600 µL	6 mL
NaM601014-E	100mM dUTP	10 µL	100 µL	1 mL
NaM601014-F	UDG Enzyme (1U/µL)	25 µL	250 µL	2.5 mL

Operate

qPCR reaction System

Components No.	Components	Volume µL	Final Conc.
NaM601014-A	5×Lolina® L1 Universal TaqMan qPCR buffer	5	1 ×
NaM601014-B	E-taq (20U/µL)	0.1	
NaM601014-C	250mM MgSO ₄	1.25	
NaM601014-D	25 mM dNTPs	0.6	
NaM601014-E	100mM dUTP	0.1	
NaM601014-F	UDG Enzyme (1U/µL)	0.25	
	Primer mix (10 µM)	X	0.1-0.5 µM
	Probe mix (10 µM)	X	50-250 nM
	Template DNA/cDNA	1-10	-
	ddH ₂ O	up to 25	-

Reaction program

Cycle step	Temp.	Time	Cycles
Contamination Degradation	37 °C	5 min	1
Initial denaturation	97 °C	30 sec	1
Denaturation	97 °C	3 sec	45
Annealing/Extension	60 °C	15 sec	

[Note]: Amplification Reaction: Adjust the amplification reaction temperature according to the T_m value of the designed primers. Fluorescence Signal Acquisition: Different qPCR instruments require different fluorescence signal acquisition times. Please set according to the shortest time limit.

Notes

1. This product is for research use only.
2. For your safety and health, wear a lab coat and disposable gloves while handling

