Lolina A/S

Address:Sindalsvej 30 8240 Risskov Danmark

Email: Info@lolina.dk

Website:https://lolina.dk

Product Specification

Product	Lolina® Hotstart Direct Taq DNA Polymerase, 5 U/μL
Catalog No.	NaM203003
Storage conditions	Shipment with ice packs. Store at -20°C with a shelf life of 2 years.
Hot Start	Built-in hot start

Product description

Lolina® Hotstart Direct Taq DNA Polymerase is a heat-activated DNA polymerase that is tolerant to blood and other inhibitors. This product utilizes antibody blocking and possesses excellent amplification sensitivity and specificity. The antibody is fully deactivated by heating at the denaturation temperature for 30 seconds, releasing the DNA polymerase activity. The use of this hot-start Taq enzyme effectively suppresses non-specific amplification caused by primer misannealing.

Components

	Catalog No.	Specification	Volume
Lolina® Hotstart Direct Taq DNA Polymerase, 5 U/μL	NaM203003ES72	250 U	50 μL
	NaM203003ES76	500 U	100 μL
	NaM203003ES80	1000 U	200 μL
	NaM203003ES92	10 KU	1 mL× 2
	NaM203003ES93	25 KU	1 mL× 5
	NaM203003ES94	50 KU	10 mL

Instructions

1.Reaction System

Components	Volume（μL）	Final Concentration
2×Buffer[a]	25	1 x
Primer/Probe mix[b]	x	0.1 μM-0.5 μM
Hotstart D-Taq (5 U/μL)[c]	1.2	0.12 U/μL
Template DNA[d]	x	0.1-100 ng
ddH_2O	up to 50	-

[Note]:

a) According to the specific experimental application, it is necessary to prepare the corresponding reaction buffer.

b) The primer concentrations in the table are recommended concentrations. They can be adjusted according to the specific experimental conditions to achieve the optimal concentrations.

c) Adjust the amount of Taq enzyme according to the specific experimental application.

d) The DNA amount in the table are recommended concentrations. They can be adjusted according to the specific experimental conditions to achieve the optimal concentrations.

2.Reaction program

Cyclestep	Temp.	Time	Cycles
Initial denaturation	95°C	5 min	1
Denaturation	95°C	15 s	45
Annealing/Extension	60°C[a]	30 s[b]	

[Note]:

a) Amplification reaction: The amplification reaction temperature should be adjusted based on the Tm value of the designed primers.

b) Fluorescence signal collection: Different qPCR instruments require different fluorescence signal collection times. Please set the collection time according to the shortest time limit.

Notes

For your safety and health, wear lab coats and disposable gloves during operation.