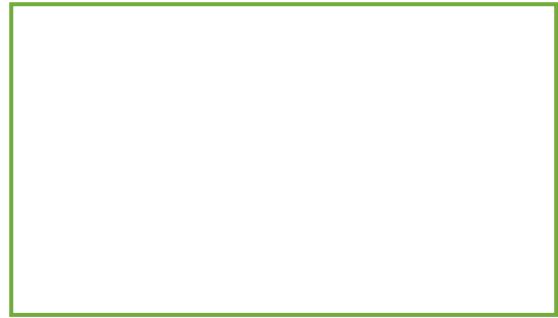




Viale Piceno 137/f
61032 Fano PU (IT)
Telephone + 39 (0) 721830605
FAX +39 (0)721837154
e-mail:info@diatheva.com
www.diatheva.com



Hot Rescue PLUS DNA Polymerase

1X250U

MBR0001 - PLUS

Intended use DNA Amplification

Product description Hot-Rescue PLUS DNA Polymerase is a chemically modified Hot Start Taq DNA Polymerase which lacks activity below 75°C avoiding non-specific priming at low temperature. Hot-rescue PLUS DNA Polymerase is activated by 10-minute incubation at 95°C.

Components
1X Hot Rescue PLUS DNA Polymerase 250 U
1X MgCl₂ 25mM (1 ml)
10 X Reaction Buffer (1 ml)

Reaction Buffer 150 mM Tris-HCl pH 8.0, 500 mM KCl, Stabilizer.

Storage -20°C

General protocol

Component	Suggested concentrations
10x Reaction Buffer	1X
DNTP 10 mM	200 uM each dNTP
MgCl ₂	1,5 mM
Primers	0.1 nmol each
Hot-Rescue PLUS DNA Pol. (5U/μl)	0.8 to 2.5 units
H ₂ O	As required
DNA template	As required

- Use experimental template preferably >104 copies of template but < 1μg DNA/reaction.

General protocol

STEP	TIME	TEMPERATURE
Initial activation step	10 min	95°C
Denaturation	30 s	95°C
Annealing	1 min	60°C
Extension	2 min	72°C
Cycle number	25	-

Cycle number depends on the amount of template DNA
Set up a single step (annealing – extension) at ≥ 60°C for 30-60 s when the T_m of primers is similar to the extension temperature.