gb GelReady PCR Master Mix

Description of the product

gb GelReady PCR Master Mix consists of hot-start Taq DNA polymerase, reaction buffer, dNTP, $MgCl_2$, dyes and additives **for direct loading of the PCR product into the gel**. Taq polymerase is chemically modified DNA polymerase from Thermus aquaticus. This polymerase is completely inactive at room temperature but it is rapidly activated during the initial denaturation step of PCR.

gb PCR Master Mix dle aplikace	gb GelReady
end-point PCR, common PCR amplification	✓
real-time PCR without probes	
real-time PCR with hydrolysis probes	
real-time PCR with LNA probes	
real-time PCR with hybridization probes	
real-time PCR with High Resolution Melting Analysis	
real-time PCR with low DNA samples	
PCR/real-time PCR with inhibited samples	

Purpose of the product

gb GelReady PCR Master Mix is intended for end-point PCR applications with product visualization by gel electrophoresis. Master Mix contains dyes and additives for direct loading of the PCR product into the gel without adding a loading buffer. It is not intended for use in diagnostics.

Available products

Cat. No.	Product	rxn
3009	gb GelReady PCR Master Mix	100

1 tube contains reagents to provide 100 PCR reactions (20 µl volume of each reaction).

Parameters of the product

- Master Mix is a **2× concentrated.**
- One vial contains 1 ml of PCR Master Mix sufficient for 100 of PCR reactions of 20 µl.
- PCR Master Mix contains the Taq DNA polymerase, PCR reaction buffer, dNTPs, MgCl2, dyes and additives for direct loading of the PCR product into the gel.
- Taq DNA polymerase is a hot-start type with a short activation time, with the 5´-3´ polymerase and exonuclease activity, lacking the 3´-5´ exonuclease activity.
- PCR Mater Mix is suitable for end-point PCR analysis with a subsequent product visualization by gel electrophoresis.

Amplification protocol

Step	Temperature	Time	Cycle number
Initial denaturation/enzyme activation	95 °C	1–2 min	1
Denaturation	95 °C	0.5–1 min	30 - 50
Annealing	Tm - 5 °C	0.5–1 min	
Extension	72 °C	1 min/kb	
Final extension	72 °C	5–15 min	1