

Data sheet

This data sheet provided for information only

PCR^{RED} Core Kit II

RESEARCH USE ONLY

**Set of reagents for DNA amplification
(With ready - to - load 5X Buffer)**

PCR^{RED} Core Kit is the set of separate, high quality reagents for routine PCR amplification

Cat. No.	Pack	Conc.
Dia-CR02200	100 rxn	-
Dia-CR02201	500 rxn	-

Stability:

All components are stable for 24 months at -20°C.

CONTENT:

250U DiaTaq^{RED} Polymearse
 0.4ml of dNTP's MIX (2.5mM each of dNTP's)
 0,5ml 50 mM MgCL₂ Stock solution
 0.5 ml 10X Reaction Buffer
 5 ml PCR Grade Water

DESCRIPTION

PCR^{RED} Core Kit II is recommended for use in routine PCR reactions.

10X Reaction Buffer optimized for high specificity PCR with DiaTaq DNA Polymerase

PCR^{RED} Core Kit II is not recommended for the plate-based PCR and automated pipetting, where detergent-free buffer system is required.

DiaTaq^{RED} Polymearse allows to facilitate the visual control of mixing the enzyme with other components in reaction.

Recommended PCR assay

50µl PCR assay		Final Conc.
0.5µl	DiaTaq ^{RED} Polymearse	2.5U
10 µl	5X ColoRed RB	1X
1.5-2.5µl	50mM MgCL ₂ Solution	1.5-2.5mM
4 µl	dNTP's MIX	0.2mM each
0.2-1µM	each Primer	
Variable*	DNA Template	
To 50µl	PCR Grade Water	

*- depending on DNA template initial concentration

For optimal specificity of amplification an individual optimization of concentrations/parameters may be necessary for each new DNA template and/or primers pair

APPLICATIONS:

- Routine PCR
- Primer extension
- Starting PCR optimization

STORAGE CONDITIONS :

Store **all components** at -20 °C (for long term storage).

SHIPPING CONDITIONS:

Should be shipped at ambient temperature
 For long distance shipments preferably in **Blue Ice**