

10x concentrated PCR Blue Buffer

(Catalogue number T058, T059)

rev. 01/2022

Description

PCR Blue Buffer contains ammonium sulfate instead of potassium chloride and thereby exhibits higher tolerance towards changing concentrations of $MgCl_2$. The reaction buffer can be used with the following Top-Bio polymerases: Taq DNA polymerase (Cat. No T032-T034), Taq DNA polymerase Unis (Cat. No. T037-T039), Taq-Purple DNA polymerase (Cat. No T107-T109), Taq DNA polymerase 1.1 (Cat. No T112-T114) and Combi Taq DNA polymerase (Cat. No C205-C207).

1x concentrated buffer contains 2.5 mM $MgCl_2$, which is suitable for most PCRs. Alternatively, 10x concentrated buffer is provided without $MgCl_2$ and 25 mM $MgCl_2$ is provided separately. This allows rapid optimization of reaction conditions.

Technical data

Components and packaging

- 1 test tube containing 10x concentrated PCR Blue Buffer (1.5 ml).
- 10x concentrated PCR Blue buffer is either with 25 mM $MgCl_2$ (Cat. No. T058) or without $MgCl_2$ and 25 mM $MgCl_2$ (0.5 ml) is provided in separate tube (Cat. No. T059).

Storage

- At temperature $-20^{\circ}C \pm 5^{\circ}C$. Material can be repeatedly defrosted.

Composition

- 10x concentrated PCR Blue buffer (T058): 750 mM Tris-HCl (pH 8.8 at $25^{\circ}C$), 200 mM $(NH_4)_2SO_4$, 1% Tween 25 mM $MgCl_2$.
- 10x concentrated PCR Blue buffer without $MgCl_2$ (T059): 750 mM Tris-HCl (pH 8.8 at $25^{\circ}C$), 200 mM $(NH_4)_2SO_4$, 1% Tween 25 mM. 25 mM $MgCl_2$ is in separate tube.

Purity and quality control

- Material is nuclease free.
- Each batch PCR Blue buffer is tested for its ability to amplify DNA fragment from mammalian genomic DNA by PCR. The results are evaluated by electrophoresis in agarose gel in the presence of ethidium bromide; only the expected DNA band is present.

Cat. No.	Product name and specification	Amount
T058	10x PCR Blue Buffer complete	1.5 ml
T059	10x conc. PCR Blue Buffer without $MgCl_2$ + $MgCl_2$	1.5 ml + 0.5 ml

