

50 mM MgCl₂

LOT: See product label

EXPIRY DATE: See product label

ORDERING INFORMATION

CAT. NO.	SIZE	PACKAGE CONTENT
BR1900101	6 ml	4 × 1.5 ml 50 mM MgCl ₂

COMPONENT

COMPOSITION

50 mM MgCl₂

PCR Grade 50 mM MgCl₂ in water

STORAGE

-20°C (until expiry date – see product label)

FEATURES

- Flexibility in PCR optimization
- Improved PCR performance

APPLICATIONS

- Optimization of PCR buffer conditions

50 mM MgCl₂

DESCRIPTION

biotechrabbit™ MgCl₂ is ideally suited for optimization of PCR conditions. For convenience and flexibility, it is provided as 50 mM solution.

PROTOCOL

Optimizing magnesium concentration

Many applications use the standard concentration of 1.5 mM MgCl₂. However, reactions with increased amounts of template (e.g., genomic DNA), primer and nucleotides might require higher MgCl₂ concentrations (2–3 mM). The 50 mM MgCl₂ solution can be used to adjust the MgCl₂ concentration according to the table below:

Final concentration of MgCl ₂ in a 50 µl reaction, mM	1.5	1.75	2.0	2.5	3.0
Volume of 50 mM MgCl ₂ solution to add, µl	1.5	1.75	2.0	2.5	3.0

CERTIFICATE OF ANALYSIS

Quality Control

Functional Assay:

Human genomic DNA was amplified using Taq DNA Polymerase and specific primers to produce a distinct band of 750 bp.

Quality confirmed by: Head of Quality Control

SAFETY INSTRUCTIONS

For safety instructions please see Safety Data Sheets (SDS)/Sicherheitshinweise finden Sie in den SDS unter: <http://www.biotechrabbit.com/support/documentation.html>.

USEFUL HINTS

- Visit Applications at www.biotechrabbit.com for more products and product selection guides.
- Most biotechrabbit products are available in custom formulations and bulk amounts.

CONTACT BIOTECHRABBIT

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Legal Disclaimer and Product Use Limitation

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