

Data sheet

This data sheet provided for information only

50mM MgCL₂ Stock Solution

RESEARCH USE ONLY

Cat.No.	Pack	Conc.
SMG5-1	1ml	50mM
SMG5-5	5ml	50mM

Stability:

Shelf life 12 months if store at -20°C

CONTENT:**50mM MgCL₂** in water

Sterile

DESCRIPTION**50mM MgCL₂ Stock Solution** is an essential Co-factor in many Polymerases and it is included in the polymerase chain reaction (PCR) buffers**Quality:**The **50mM MgCL₂ Stock Solution** is prepared in sterile water, sterile filtered and autoclaved. for Molecular Biology, DNase free**Recommended PCR assay**

	50µl PCR assay	Final Conc.
0.5µl	DiaTaq/SmarTaq Pol	2.5U
10µl	5X Ampli Buffer	1X
1.5-2.5µl	50mM MgCl ₂ Solution	1.5-2.5mM
4µl	2.5mM dNTP's MIX	0.2mM each
0.2-1.0µl	each Primer	
Variable*	DNA Template	
To 50µl	PCR Grade Water	

*- depending on DNA template initial concentration
For 25µl PCR assay, all reagents should be reduced proportionally.**APPLICATIONS:**

- Routine PCR
- Primer extension
- DNA sequencing
- Low-copy PCR (SmarTaq Polymerase)
- Multiplex PCR

STORAGE CONDITIONS :Store **50mM MgCL₂ Stock Solution** at -20°C (for long-term storage).**SHIPPING CONDITIONS:**

Should be shipped at ambient temperature