

Data sheet

This data sheet provided for information only

5X MasTaq^{XC}-2025**RESEARCH USE ONLY****“Ready-to-load” MasterMix for DNA amplification**

Cat.No.	Pack	Conc.
Dia-07410	100 rnx	5 X
Dia-07411	500 rnx	5 X

Stability:

5X MasTaq^{XC} stable for 24 months at -20°C, **or** for 6 months at +4°C storage without freezing.

CONTENT:

1X: SmarTaq Polymerase

0.2mM each of dNTP's

2.0 mM MgCL₂

16,6mM (NH₄)₂SO₄;67,0mM This-HCL (pH 8.8 at 25°C);0.01% Tween-20

Stabilizers/enhancers

Inherent dye (Blue color)

DESCRIPTION

5X MasTaq^{XC} is a ready-to-use/load premix of all components for amplification of target DNA, contains **two stabilizers/ enhancers** , which improves thermostabilization of enzyme during PCR amplification and storage, and inherent dye (**colored Blue**), which allows direct loading of the sample after PCR run to gel for electrophoresis.

5X MasTaq^{XC} is optimized for PCR with **complex, low-copy number DNA templates, multiplex PCR**, and allows improving specificity of your PCR.

5X MasTaq^{XC} contain optimal MgCl₂ concentration (2.0mM).

You can use an appropriate volume of **5X MasTaq^{XC}** for amplification reaction, depending on total final reaction volume.

Just place it into the tube/plate adds primers and template of choice mix all components and run PCR.

After PCR reaction running, load 5-10µl of reaction mixture directly onto the gel without any other manipulations (addition of “Loading Buffer”) and run electrophoresis.)

Recommended PCR assay

50µl PCR assay	Final Conc.
10µl 5X MasTaq^{XC} -2025	1X
0.2-1µM each Primer	
Variable* DNA Template	
To 50µl PCR Grade Water	

*- depending on DNA template initial concentration

APPLICATIONS:

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

STORAGE CONDITIONS :

Store **5X MasTaq^{XC}** at -20°C (for long term storage).

SHIPPING CONDITIONS:

Should be shipped at ambient temperature

For land distance shipments preferably in **Blue Ice**