

Data sheet

This data sheet provided for information only

10X N-AmpliBuffer**RESEARCH USE ONLY****10X Amplification Buffer**

Cat.No.	Pack	Conc.
RB-111	0,5ml	10 X
RB-115	5x0,5ml	10 X

Stability:

Shelf life 12 months, if store at -20°C

CONTENT:166mM (NH₄)₂SO₄; 670mM Tris-HCL (pH 8.8 at 25°C); 0.1% Tween-20, enhancer/stabilizer**DESCRIPTION**

10X N-AmpliBuffer recommended for PCR amplification of DNA templates from various sources. **10X AmpliBuffer** optimized for specific amplification of DNA with Taq/Tth-based Polymerases (DiaTaq/SmarTaq, Dia^{HY}Taq, and Tth).

10X N-AmpliBuffer MgCl₂ free.

10X N-AmpliBuffer contains **specific additives for thermostabilization** of PCR enzymes during PCR amplification and allows to increase the quantity of PCR cycles up to 45, for low copy DNA templates.

Recommended PCR assay

	50µl PCR assay	Final Conc.
0.5µl	DiaTaq/SmarTaq Pol	2.5U
5µl	10X AmpliBuffer	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)
- Real-time applications

STORAGE CONDITIONS :

Store **10X N-Ampli Buffer** at -20°C (for long-term storage).

SHIPPING CONDITIONS:

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