

Data sheet

This data sheet provided for information only

5X Ampli^{EN} Buffer**RESEARCH USE ONLY****Ready-to-load amplification buffer**

| Cat.No. | Pack | Conc. |
|---------------|------------|------------|
| RB-501 | 1ml | 5 X |
| RB-502 | 5ml | 5 X |

Stability:

Shelf life 12 months if store at -20°C

CONTENT:166mM (NH₄)₂SO₄;670mM This-HCL (pH 8.8 at 25°C); 0.1% Tween-20, stabilizers/enhancers,**DESCRIPTION****5X AmpliEN Buffer** is recommended for PCR amplification of DNA templates from various sources.**5X AmpliEN Buffer** is optimized for high specific amplification of DNA with Taq/Tth-based Polymerases (DiaTaq, SmarTaq, Dia^{HY}Taq, and Tth).**5X AmpliEN Buffer** MgCl₂ free.**5X AmpliEN Buffer** contains **specific additives for thermostabilization** of PCR enzymes during PCR amplification.**Recommended PCR assay**

| 50ml PCR assay | | Final Conc. |
|----------------|---------------------------------|-------------|
| 0.5µl | DiaTaq/SmarTaq Pol | 2.5U |
| 5µl | 5X AmpliEN 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 **5X AmpliEN Buffer** at -20°C (for long term storage).**SHIPPING CONDITIONS:**

Should be shipped at ambient temperature

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