

## ThermoPol™ Reaction Buffer Pack



1-800-632-7799  
info@neb.com  
www.neb.com



B9004S 001121215121

# B9004S

6.0 ml (4 x 1.5 ml)

Lot: 0011212

Store at -20°C

Exp: 12/15

**Description:** 10X ThermoPol Reaction Buffer is optimized for use with Vent<sub>R</sub>™ and Deep Vent<sub>R</sub>™ DNA Polymerases. This buffer also provides superior reaction conditions for other thermophilic DNA polymerases, including *Taq* DNA Polymerase, as well as various other DNA and RNA modifying enzymes. Supplemental MgSO<sub>4</sub> is provided to maximize flexibility for users that require additional Mg<sup>2+</sup> for their specific application. See individual product descriptions for the recommended buffer for each enzyme, or visit the FAQ page for this

product on the NEB web site for a complete list of enzymes for which this buffer is either recommended or compatible.

### Reagents Supplied:

10X ThermoPol Reaction Buffer 4 x 1.5 ml  
100 mM MgSO<sub>4</sub> 1.5 ml

**Reaction Conditions:** At a 1X concentration, the reaction buffer assures optimal activity of Vent<sub>R</sub>, Deep Vent<sub>R</sub>, *Taq* and other DNA polymerases, as well as other enzymes for which ThermoPol Reaction Buffer is recommended.

### 1X ThermoPol Reaction Buffer:

20 mM Tris-HCl  
10 mM (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>  
10 mM KCl  
2 mM MgSO<sub>4</sub>  
0.1% Triton® X-100  
pH 8.8 @ 25°C

### Quality Assurance

This reaction buffer and supplement are free of detectable nucleases.

VENT® is a registered trademark of New England Biolabs, Inc.  
DEEP VENT™ and THERMOPOL™ are trademarks of New England Biolabs, Inc.  
TRITON® is a registered trademark of Union Carbide Corporation.



CERTIFICATE OF ANALYSIS

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