

## New England Biolabs Product Specification

*Product Name:* Taq PCR Kit  
*Catalog #:* E5000S  
*Kit Components:* Taq DNA Polymerase with Standard Taq Buffer (M0273)  
Deoxynucleotide (dNTP) Solution Mix (N0447)  
Standard Taq Reaction Buffer Pack (B9014)  
Standard Taq (Mg-free) Reaction Buffer Pack (B9015)  
Magnesium Chloride (MgCl<sub>2</sub>) Solution (B9021)  
Quick-Load<sup>®</sup> Purple 2-Log DNA Ladder (0.1 - 10.0 kb) (N0550)

*Shelf Life:* 24 months  
*Storage Temp:* -20°C  
*Specification Version:* PS-E5000S v1.0  
*Effective Date:* 30 Apr 2018

### Assay Name/Specification (minimum release criteria)

**PCR Amplification (5.0 kb Lambda DNA)** - A 50 µl reaction in Standard Taq Reaction Buffer in the presence of 200 µM dNTPs and 0.2 µM primers containing 5 ng Lambda DNA with 1.25 units of Taq DNA Polymerase for 25 cycles of PCR amplification results in the expected 5.0 kb product.

\* **Individual Product Component Note** - Standard Quality Control Tests are performed for each component included in Taq PCR Kit and meet the designated specifications.



Date 30 Apr 2018

Derek Robinson  
Director of Quality Control

