

## New England Biolabs Product Specification

*Product Name:* EnGen<sup>®</sup> Mutation Detection Kit  
*Catalog #:* E3321S  
*Kit Components:* Q5<sup>®</sup> Hot Start High-Fidelity 2X Master Mix (M0494)  
EnGen<sup>®</sup> T7 Endonuclease I (M0450)  
Control Template and Primer Mix (S0534)  
NEBuffer<sup>™</sup> 2 (B7002)  
Proteinase K, Molecular Biology Grade (P8107)  
Quick-Load<sup>®</sup> Purple 1 kb Plus DNA Ladder (N0550)  
Gel Loading Dye, Purple (6X), no SDS (B7025)

*Shelf Life:* 24 months  
*Storage Temp:* -20°C  
*Specification Version:* PS-E3321S v1.0  
*Effective Date:* 15 Jun 2018

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

**Functional Testing (EnGen<sup>®</sup> Mutation Detection Kit)** - The EnGen<sup>®</sup> Mutation Detection Kit is functionally tested by PCR amplification of the control template creating a 600 bp amplicon. This is followed by heteroduplex formation and digestion using T7 Endonuclease I, resulting in the expected 200 bp and 400 bp cleavage products, and the 600 bp parental homoduplex.

\* **Individual Product Component Note** - Standard Quality Control Tests are performed for each component included in EnGen<sup>®</sup> Mutation Detection Kit and meet the designated specifications.



Date 15 Jun 2018

Derek Robinson  
Director of Quality Control

