

## New England Biolabs Certificate of Analysis

Product Name: *EnGen® Mutation Detection Kit*  
 Catalog Number: *E3321S*  
 Packaging Lot Number: *10217191*  
 Expiration Date: *10/2025*  
 Storage Temperature: *-20°C*  
 Specification Version: *PS-E3321S v1.0*

EnGen® Mutation Detection Kit Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
S0534AVIAL	Control Template & Primer Mix	10213079	Pass
P8107AVIAL	Proteinase K, Molecular Biology Grade	10206266	Pass
N0550AVIAL	Quick-Load® Purple 1 kb Plus DNA Ladder	10211823	Pass
M0494AAVIAL	Q5® Hot Start High-Fidelity 2X Master Mix	10213076	Pass
M0450AVIAL	EnGen® T7 Endonuclease I	10213078	Pass
B7025SVIAL	Gel Loading Dye, Purple (6X), no SDS	10208667	Pass
B7002SVIAL	NEBuffer™ 2	10204841	Pass

Assay Name/Specification	Lot # 10217191
<p><b>* Individual Product Component Note</b>            Standard Quality Control Tests are performed for each component included in EnGen® Mutation Detection Kit and meet the designated specifications.</p>	Pass
<p><b>Functional Testing (EnGen® Mutation Detection Kit)</b>            The EnGen® 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.</p>	Pass

This product has been tested and shown to be in compliance with all specifications.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.



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12 Oct 2023



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Michael Tonello  
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10 Jan 2024