

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

## New England Biolabs Certificate of Analysis

Product Name: Q5® Site-Directed Mutagenesis Kit (Without Competent Cells)

Catalog Number: E0552S
Packaging Lot Number: 10109471
Expiration Date: 06/2023
Storage Temperature: -20°C

Specification Version: PS-E0552S v1.0

Q5® Site-Directed Mutagenesis Kit (Without Competent Cells) Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
S0554AVIAL	Control SDM Primer Mix	10106653	Pass	
N0554AVIAL	Control SDM Plasmid	10106652	Pass	
M0554AVIAL	KLD Enzyme Mix	10106650	Pass	
M0494AVIAL	Q5® Hot Start High-Fidelity 2X Master Mix	10106651	Pass	
B0554AVIAL	KLD Reaction Buffer	10106654	Pass	

Assay Name/Specification	Lot # 10109471
* Individual Product Component Note	Pass
Standard Quality Control Tests are performed for each component included in Q5	
Site-Directed Mutagenesis Kit (Without Competent Cells) and meet the designated	
specifications.	
Functional Testing (Mutagenesis Kit)	Pass
A 10 µl reaction containing 1 µl of PCR product (10 ng of Control SDM plasmid,	
amplified with Control SDM Primer Mix, with 25 cycles in Q5 Hot Start High-Fidelity	
Master Mix), 1 μl 10X KLD Enzyme Mix, 5 μl 2X KLD Reaction Buffer and 3 μl of	
nuclease-free water for 5 minutes at room temperature yields >50 colonies with >75%	
blue after transforming 5 µl into 50 µl NEB 5-alpha Chemically Competent Cells and	
making a 40-fold dilution prior to plating.	

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 for additional information.



E0552S / Lot: 10109471

Page 1 of 2

Ana Egana

Ana Egana
Production Scientist
14 Jun 2021

Michael Tonello

Packaging Quality Control Inspector

14 Jun 2021

E0552S / Lot: 10109471

Page 2 of 2