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New England Biolabs Certificate of Analysis

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

Catalog Number: E0552S
Packaging Lot Number: 10075593
Expiration Date: 06/2022
Storage Temperature: -20°C

Specification Version: PS-E0552S v1.0

Q5® Site-Directed Mutagenesis Kit (Without Competent Cells) Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
S0554AVIAL	Control SDM Primer Mix	10075156	Pass	
N0554AVIAL	Control SDM Plasmid	10075155	Pass	
M0554AVIAL	KLD Enzyme Mix	10075594	Pass	
M0494AVIAL	Q5® Hot Start High-Fidelity 2X Master Mix	10076728	Pass	
B0554AVIAL	KLD Reaction Buffer	10075153	Pass	

Assay Name/Specification	Lot # 10075593
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.	
* 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.	

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.



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Michael Tonello
Packaging Quality Control Inspector

18 Aug 2020