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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: 10071258
Expiration Date: 09/2021
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	10052076	Pass	
N0554AVIAL	Control SDM Plasmid	10052075	Pass	
M0554AVIAL	KLD Enzyme Mix	10052071	Pass	
M0494AVIAL	Q5® Hot Start High-Fidelity 2X Master Mix	10055243	Pass	
B0554AVIAL	KLD Reaction Buffer	10052074	Pass	

Assay Name/Specification	Lot # 10071258
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.



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Production Scientist
03 Oct 2019

Josh Hersey

Packaging Quality Control Inspector

01 Apr 2020