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## New England Biolabs Certificate of Analysis

Product Name: Q5® Site-Directed Mutagenesis Kit

Catalog Number: E0554S
Packaging Lot Number: 10103719
Expiration Date: 04/2022

Storage Temperature: Multi-temperature\*
Specification Version: PS-E0554S v2.0

\* This product contains components with different storage temperature requirements. Please reference the applicable product specification document(s) on the Quality and Safety tab located on the product page of www.neb.com.

Q5® Site-Directed Mutagenesis Kit Component List			
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result
S0554AVIAL	Control SDM Primer Mix	10091653	Pass
N3041AVIAL	pUC19 Vector	10095954	Pass
N0554AVIAL	Control SDM Plasmid	10091652	Pass
M0554AVIAL	KLD Enzyme Mix	10091649	Pass
M0494AVIAL	Q5® Hot Start High-Fidelity 2X Master Mix	10091651	Pass
C2987HVIAL	NEB® 5-alpha Competent E. coli (High Efficiency)	10100130	Pass
B9020SVIAL	SOC Outgrowth Medium	10093863	Pass
B0554AVIAL	KLD Reaction Buffer	10091650	Pass

Assay Name/Specification	Lot # 10103719
* Individual Product Component Note	Pass
Standard Quality Control Tests are performed for each component included in Q5	
Site-Directed Mutagenesis Kit 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.



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Ana Egana Production Scientist

01 Apr 2021

Corey Rabeau

Packaging Quality Control Inspector

01 Apr 2021



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