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New England Biolabs Certificate of Analysis

| Product Name: | Q5® Site-Directed Mutagenesis Kit |
|------------------------|-----------------------------------|
| Catalog Number: | E0554S |
| Packaging Lot Number: | 10097568 |
| Expiration Date: | 01/2022 |
| 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 | | | |
|--|--|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| S0554AVIAL | Control SDM Primer Mix | 10091653 | Pass |
| N3041AVIAL | pUC19 Vector | 10088620 | 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) | 10090621 | Pass |
| B9020SVIAL | SOC Outgrowth Medium | 10088482 | Pass |
| B0554AVIAL | KLD Reaction Buffer | 10091650 | Pass |

| Assay Name/Specification | Lot # 10097568 |
|---|----------------|
| Functional Testing (Mutagenesis Kit) 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. | Pass |
| * Individual Product Component Note Standard Quality Control Tests are performed for each component included in Q5 Site-Directed Mutagenesis Kit and meet the designated specifications. | Pass |

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





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Ana Egana Production Scientist 29 Jan 2021

Corey Rabeau

Packaging Quality Control Inspector 29 Jan 2021

