

## New England Biolabs Certificate of Analysis

**Product Name:** *KLD Enzyme Mix*  
**Catalog Number:** *M0554S*  
**Concentration:** *10 X Concentrate*  
**Packaging Lot Number:** *10149054*  
**Expiration Date:** *02/2024*  
**Storage Temperature:** *-20°C*  
**Specification Version:** *PS-M0554S v1.0*  
**Composition (1X):** *Proprietary*

| KLD Enzyme Mix Component List |                       |            |                      |
|-------------------------------|-----------------------|------------|----------------------|
| NEB Part Number               | Component Description | Lot Number | Individual QC Result |
| M0554SVIAL                    | KLD Enzyme Mix        | 10138574   | Pass                 |
| B0554AVIAL                    | KLD Reaction Buffer   | 10138578   | Pass                 |

| Assay Name/Specification   | Lot # 10149054 |
|--|----------------|
| <b>Functional Testing (Mutagenesis Kit)</b><br>A 10 µl reaction in KLD Reaction Buffer containing 1 µl of PCR product and 1 µl KLD Enzyme Mix is incubated for 5 minutes at room temperature . Transformation of 50 µl NEB 5-alpha Chemically Competent Cells with 5 µl of the KLD mixture yields >50 colonies with >75% blue colonies when 2.5% of the transformation is plated on Ampicillin, IPTG and Xgal and incubated overnight at 37°C. | <b>Pass</b>    |

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

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Ana Egana  
Production Scientist  
14 Apr 2022



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Michael Tonello  
Packaging Quality Control Inspector  
14 Apr 2022