

## New England Biolabs Certificate of Analysis

**Product Name:** *KLD Enzyme Mix*  
**Catalog Number:** *M0554S*  
**Concentration:** *10 X Concentrate*  
**Packaging Lot Number:** *10212824*  
**Expiration Date:** *04/2025*  
**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	10186787	Pass
B0554AVIAL	KLD Reaction Buffer	10187027	Pass

Assay Name/Specification	Lot # 10212824
<b>Functional Testing (Mutagenesis Kit)</b> 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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11 May 2023



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26 Nov 2023