

## New England Biolabs Certificate of Analysis

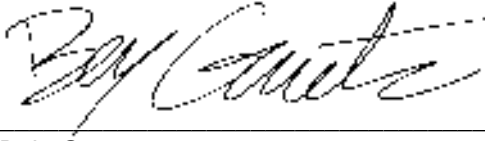
*Product Name:* KLD Enzyme Mix  
*Catalog Number:* M0554S  
*Concentration:* 10 X Concentrate  
*Packaging Lot Number:* 10257144  
*Expiration Date:* 08/2026  
*Storage Temperature:* -20°C  
*Specification Version:* PS-M0554S v1.0  
*Composition (1X):* Proprietary

KLD Enzyme Mix Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0554SVIAL	KLD Enzyme Mix	10249181	Pass
B0554AVIAL	KLD Reaction Buffer	10249180	Pass

Assay Name/Specification	Lot # 10257144
<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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19 Aug 2024



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30 Sep 2024