# New England Biolabs
## Product Specification

**Product Name:** KLD Enzyme Mix  
**Catalog #:** M0554A  
**Concentration:** 10X Concentrate  
**Shelf Life:** 24 months  
**Storage Temp:** -20°C  
**Composition (1X):** Proprietary  
**Specification Version:** PS-M0554A v1.0  
**Effective Date:** 27 Mar 2017

<table>
<thead>
<tr>
<th>Assay Name/Specification (minimum release criteria)</th>
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<tbody>
<tr>
<td><strong>Functional Testing (Mutagenesis Kit)</strong> - 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 &gt;50 colonies with &gt;75% blue colonies when 2.5% of the transformation is plated on Ampicillin, IPTG and Xgal and incubated overnight at 37°C.</td>
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*The BSA in this product has been granted an EDQM "Certificate of Suitability" from the European Directorate for the Quality of Medicines (R1-CEP-2003-204-Rev00) and has been granted a USDA Certificate for Export of Bovine Blood Plasma/Serum for Manufacture into Pharmaceutical Products.*

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Derek Robinson  
Director of Quality Control