

## New England Biolabs Certificate of Analysis

Product Name: *NEBridge Ligase Master Mix*  
 Catalog Number: *M1100S*  
 Concentration: *3 X Concentrate*  
 Packaging Lot Number: *10124968*  
 Expiration Date: *10/2023*  
 Storage Temperature: *-20°C*  
 Specification Version: *PS-M1100S/L v1.0*  
 Composition (1X): *Proprietary*

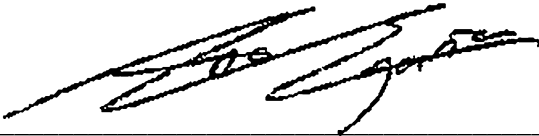
NEBridge Ligase Master Mix Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M1100SVIAL	NEBridge Ligase Master Mix	10124969	Pass

Assay Name/Specification	Lot # 10124968
<p><b>Functional Testing (Ligation and Transformation, Blunt Ends)</b>            After a 15 minute ligation of linearized, dephosphorylated LITMUS 28 containing blunt EcoRV ends and a mixture of compatible insert fragments, transformation into chemically competent NEB 5-alpha competent E. coli (high efficiency) cells yields a minimum of 106 recombinant transformants per µg plasmid DNA.</p>	Pass
<p><b>Functional Testing (Assembly)</b>            A 15 µl reaction containing 75 ng pGGaselect (Golden Gate destination plasmid, CamR), 75 ng each of 5 plasmids carrying fragments of a gene encoding lacZ, 1 µl of Bsal-HF v2 and 5 µl NEBridge Ligase Master Mix is incubated for 30 cycles of 37°C for 1 minute, 16°C for 1 minute, and then at 60°C for 5 minutes to linearize any remaining plasmid. Successfully assembled fragments result in lacZ gene in the pGGaselect vector and yield blue colonies on Cam/XGAL/IPTG agar plates. Transformation of T7 Express Competent E. coli (High Efficiency, NEB #C2566) with 2 µl of the assembly reaction yields &gt;250 colonies and &gt; 80% blue colonies when 5% of transformation is plated.</p>	Pass
<p><b>Non-Specific DNase Activity (16 Hour)</b>            A 50 µl reaction in NEBuffer 1 containing 1 µg of CIP-treated Lambda-HindIII DNA and a minimum of 10 µl of NEBridge™ Ligase Master Mix incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.</p>	Pass

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



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Ana Egana  
Production Scientist  
14 Oct 2021



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Michael Tonello  
Packaging Quality Control Inspector  
14 Oct 2021