

## New England Biolabs Certificate of Analysis

Product Name: NEB<sup>®</sup> 10-beta Electrocompetent *E.coli*  
 Catalog Number: C3020K  
 Lot Number: 10022925  
 Expiration Date: 09/2019  
 Storage Temperature: -80°C  
 Specification Version: PS-C3020K v1.0

NEB <sup>®</sup> 10-beta Electrocompetent <i>E.coli</i> Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N3041AVIAL	pUC19 Vector	10017063	Pass
C3020KVIAL	NEB <sup>®</sup> 10-beta Electrocompetent <i>E.coli</i>	10019849	Pass
B9035SVIAL	NEB <sup>®</sup> 10-beta/Stable Outgrowth Medium	0341806	Pass

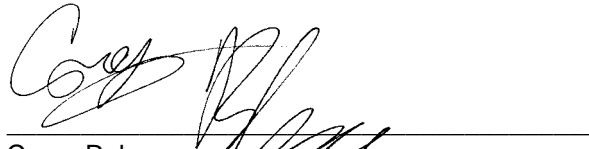
Assay Name/Specification	Lot # 10022925
<b>Antibiotic Sensitivity (Kanamycin)</b> 15 µl of untransformed NEB <sup>®</sup> 10-beta Electrocompetent <i>E. coli</i> streaked onto a LB or Rich Broth plate containing Kanamycin will not form colonies after incubation for 16 hours at 37°C.	Pass
<b>Antibiotic Sensitivity (Nitrofurantoin)</b> 15 µl of untransformed NEB <sup>®</sup> 10-beta Electrocompetent <i>E. coli</i> streaked onto a LB or Rich Broth plate containing Nitrofurantoin will not form colonies after incubation for 16 hours at 37°C.	Pass
<b>Antibiotic Sensitivity (Spectinomycin)</b> 15 µl of untransformed NEB <sup>®</sup> 10-beta Electrocompetent <i>E. coli</i> streaked onto a LB or Rich Broth plate containing Spectinomycin will not form colonies after incubation for 16 hours at 37°C.	Pass
<b>Antibiotic Sensitivity (Tetracycline)</b> 15 µl of untransformed NEB <sup>®</sup> 10-beta Electrocompetent <i>E. coli</i> streaked onto a LB or Rich Broth plate containing Tetracycline will not form colonies after incubation for 16 hours at 37°C.	Pass
<b>Blue-White Screening (α-complementation, Competent Cells)</b> NEB <sup>®</sup> 10-beta Electrocompetent <i>E. coli</i> were shown to be suitable for blue/white screening by α-complementation of the β-galactosidase gene using pUC19.	Pass

Assay Name/Specification	Lot # 10022925
<p><b>Phage Resistance (<math>\phi</math> 80)</b> 15 <math>\mu</math>l of untransformed NEB<sup>®</sup> 10-beta Electrocompetent E. coli streaked onto a Rich Broth plate does not support plaque formation by phage <math>\phi</math> 80 after incubation for 16 hours at 37°C.</p>	<b>Pass</b>
<p><b>Transformation Efficiency</b> 25 <math>\mu</math>l of NEB<sup>®</sup> 10-beta Electrocompetent E. coli cells were transformed with 10 pg of pUC19 DNA using the transformation protocol provided. Incubation overnight on LB-Ampicillin plates at 37°C resulted in <math>&gt;2 \times 10^{10}</math> cfu/<math>\mu</math>g of DNA.</p>	<b>Pass</b>
<p><b>Antibiotic Resistance (Streptomycin)</b> 15 <math>\mu</math>l of untransformed NEB<sup>®</sup> 10-beta Electrocompetent E. coli streaked onto a LB or Rich Broth plate containing Streptomycin will form colonies after incubation for 16 hours at 37°C.</p>	<b>Pass</b>
<p><b>Antibiotic Sensitivity (Ampicillin)</b> 15 <math>\mu</math>l of untransformed NEB<sup>®</sup> 10-beta Electrocompetent E. coli streaked onto a LB or Rich Broth plate containing Ampicillin will not form colonies after incubation for 16 hours at 37°C.</p>	<b>Pass</b>
<p><b>Antibiotic Sensitivity (Chloramphenicol)</b> 15 <math>\mu</math>l of untransformed NEB<sup>®</sup> 10-beta Electrocompetent E. coli streaked onto a LB or Rich Broth plate containing Chloramphenicol will not form colonies after incubation for 16 hours at 37°C.</p>	<b>Pass</b>

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



Tony Spear-Alfonso  
Production Scientist  
04 Sep 2018



Corey Rabeau  
Packaging Quality Control Inspector  
14 Sep 2018