

## New England Biolabs Certificate of Analysis

Product Name: NEB® 10-beta Electrocompetent *E.coli*  
 Catalog Number: C3020K  
 Packaging Lot Number: 10178258  
 Expiration Date: 01/2024  
 Storage Temperature: -80°C  
 Specification Version: PS-C3020K v1.0

NEB® 10-beta Electrocompetent E.coli Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N3041AVIAL	pUC19 Vector	10173306	Pass
C3020KVIAL	NEB® 10-beta Electrocompetent <i>E.coli</i>	10167810	Pass
B9035SVIAL	NEB® 10-beta/Stable Outgrowth Medium	10166803	Pass

Assay Name/Specification	Lot # 10178258
<b>Antibiotic Sensitivity (Chloramphenicol)</b> 15 µl of untransformed NEB® 10-beta Electrocompetent <i>E. coli</i> streaked onto a LB or Rich Broth plate containing Chloramphenicol will not form colonies after incubation for 16 hours at 37°C.	Pass
<b>Antibiotic Resistance (Streptomycin)</b> 15 µl of untransformed NEB® 10-beta Electrocompetent <i>E. coli</i> streaked onto a LB or Rich Broth plate containing Streptomycin will form colonies after incubation for 16 hours at 37°C.	Pass
<b>Antibiotic Sensitivity (Ampicillin)</b> 15 µl of untransformed NEB® 10-beta Electrocompetent <i>E. coli</i> streaked onto a LB or Rich Broth plate containing Ampicillin will not form colonies after incubation for 16 hours at 37°C.	Pass
<b>Antibiotic Sensitivity (Spectinomycin)</b> 15 µl of untransformed NEB® 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 (Nitrofurantoin)</b> 15 µl of untransformed NEB® 10-beta Electrocompetent <i>E. coli</i> streaked onto a LB or Rich Broth plate containing Nitrofurantoin will not form colonies after incubation	Pass

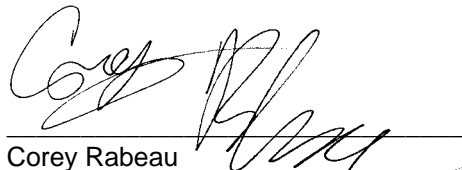
Assay Name/Specification	Lot # 10178258
for 16 hours at 37°C.	
<b>Antibiotic Sensitivity (Kanamycin)</b> 15 µl of untransformed NEB® 10-beta Electrocompetent E. coli streaked onto a LB or Rich Broth plate containing Kanamycin will not form colonies after incubation for 16 hours at 37°C.	<b>Pass</b>
<b>Antibiotic Sensitivity (Tetracycline)</b> 15 µl of untransformed NEB® 10-beta Electrocompetent E. coli streaked onto a LB or Rich Broth plate containing Tetracycline will not form colonies after incubation for 16 hours at 37°C.	<b>Pass</b>
<b>Blue-White Screening (α-complementation, Competent Cells)</b> NEB® 10-beta Electrocompetent E. coli were shown to be suitable for blue/white screening by α-complementation of the β-galactosidase gene using pUC19.	<b>Pass</b>
<b>Phage Resistance (φ 80)</b> 15 µl of untransformed NEB® 10-beta Electrocompetent E. coli streaked onto a Rich Broth plate does not support plaque formation by phage φ 80 after incubation for 16 hours at 37°C.	<b>Pass</b>
<b>Transformation Efficiency</b> 25 µl of NEB® 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 >2 x 10 <sup>10</sup> cfu/µg of DNA.	<b>Pass</b>

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

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Doreen Duquette  
Production Scientist  
24 Oct 2022



Corey Rabeau  
Packaging Quality Control Inspector  
25 Jan 2023