

## New England Biolabs Certificate of Analysis

Product Name: NEB<sup>®</sup> 10-beta Electrocompetent *E. coli*  
 Catalog Number: C3020S  
 Packaging Lot Number: 10125368  
 Expiration Date: 10/2022  
 Storage Temperature: -80°C  
 Specification Version: PS-C3020S 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	10115609	Pass
C3020SVIAL	NEB <sup>®</sup> 10-beta Electrocompetent <i>E. coli</i>	10096643	Pass
B9035SVIAL	NEB <sup>®</sup> 10-beta/Stable Outgrowth Medium	10107509	Pass

Assay Name/Specification	Lot # 10125368
<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 Resistance (Streptomycin)</b> 15 µl of untransformed NEB <sup>®</sup> 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 (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 # 10125368
<p><b>Antibiotic Sensitivity (Ampicillin)</b> 15 µl of untransformed NEB® 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>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.</p>	<b>Pass</b>
<p><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 &gt;2 x 10e10 cfu/µg of DNA.</p>	<b>Pass</b>
<p><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.</p>	<b>Pass</b>
<p><b>Antibiotic Sensitivity (Chloramphenicol)</b> 15 µl of untransformed NEB® 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.

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