

## New England Biolabs Certificate of Analysis

**Product Name:** NEB<sup>®</sup> 10-beta Competent *E. coli* (High Efficiency)  
**Catalog #:** C3019H/I  
**Lot #:** 3081609  
**Assay Date:** 09/2016  
**Expiration Date:** 09/2017  
**Storage Temp:** -80°C  
**Specification Version:** PS-C3019H/I v1.0  
**Effective Date:** 02 Sep 2016

Assay Name/Specification (minimum release criteria)	Lot #3081609
<b>Antibiotic Resistance (Streptomycin)</b> - 15 µl of untransformed NEB <sup>®</sup> 10-beta Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Streptomycin will form colonies after incubation for 16 hours at 37°C.	<b>Pass</b>
<b>Antibiotic Sensitivity (Ampicillin)</b> - 15 µl of untransformed NEB <sup>®</sup> 10-beta Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Ampicillin will not form colonies after incubation for 16 hours at 37°C.	<b>Pass</b>
<b>Antibiotic Sensitivity (Chloramphenicol)</b> - 15 µl of untransformed NEB <sup>®</sup> 10-beta Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Chloramphenicol will not form colonies after incubation for 16 hours at 37°C.	<b>Pass</b>
<b>Antibiotic Sensitivity (Kanamycin)</b> - 15 µl of untransformed NEB <sup>®</sup> 10-beta Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Kanamycin will not form colonies after incubation for 16 hours at 37°C.	<b>Pass</b>
<b>Antibiotic Sensitivity (Nitrofurantoin)</b> - 15 µl of untransformed NEB <sup>®</sup> 10-beta Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Nitrofurantoin will not form colonies after incubation for 16 hours at 37°C.	<b>Pass</b>
<b>Antibiotic Sensitivity (Spectinomycin)</b> - 15 µl of untransformed NEB <sup>®</sup> 10-beta Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Spectinomycin 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 <sup>®</sup> 10-beta Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Tetracycline will not form colonies after incubation for 16 hours at 37°C.	<b>Pass</b>

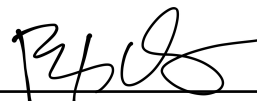


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<b>Blue-White Screening (<math>\alpha</math>-complementation, Competent Cells)</b> - NEB <sup>®</sup> 10-beta Competent <i>E. coli</i> (High Efficiency) were shown to be suitable for blue/white screening by $\alpha$ -complementation of the $\beta$ -galactosidase gene using pUC19.	<b>Pass</b>
<b>Phage Resistance (<math>\Phi</math> 80)</b> - 15 $\mu$ l of untransformed NEB <sup>®</sup> 10-beta Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate does not support plaque formation by phage $\Phi$ 80 after incubation for 16 hours at 37°C.	<b>Pass</b>
<b>Transformation Efficiency</b> - 50 $\mu$ l of NEB <sup>®</sup> 10-beta Competent <i>E. coli</i> (High Efficiency) cells were transformed with 100 pg of pUC19 DNA using the transformation protocol provided. Incubation overnight on LB -Ampicillin plates at 37°C resulted in $>1 \times 10^9$ cfu/ $\mu$ g of DNA.	<b>Pass</b>



Authorized by  
Lixin An  
02 Sep 2016



Inspected by  
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29 Sep 2016

