

New England Biolabs Certificate of Analysis

Product Name: *NEB 10-beta Competent E. coli (High Efficiency)*
 Catalog Number: C3019P
 Packaging Lot Number: 10111132
 Expiration Date: 05/2022
 Storage Temperature: -80°C
 Specification Version: PS-C3019P v1.0

NEB 10-beta Competent E. coli (High Efficiency) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N3041AVIAL	pUC19 Vector	10103254	Pass
C3019PVIAL	NEB 10-beta Competent E. coli (High Efficiency)	10103135	Pass
B9035SVIAL	NEB® 10-beta/Stable Outgrowth Medium	10093602	Pass

Assay Name/Specification	Lot # 10111132
<p>Phage Resistance (ϕ 80) 15 μl of untransformed NEB® 10-beta Competent E. coli (High Efficiency) streaked onto a Rich Broth plate does not support plaque formation by phage ϕ 80 after incubation for 16 hours at 37°C.</p>	Pass
<p>Transformation Efficiency 20 μl of NEB® 10-beta Competent E. coli (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 $>1 \times 10^8$ cfu/μg of DNA.</p>	Pass
<p>Antibiotic Sensitivity (Kanamycin) 15 μl of untransformed NEB® 10-beta Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Kanamycin will not form colonies after incubation for 16 hours at 37°C.</p>	Pass
<p>Antibiotic Sensitivity (Chloramphenicol) 15 μl of untransformed NEB® 10-beta Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Chloramphenicol will not form colonies after incubation for 16 hours at 37°C.</p>	Pass
<p>Antibiotic Sensitivity (Ampicillin) 15 μl of untransformed NEB® 10-beta Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Ampicillin will not form colonies after</p>	Pass

Assay Name/Specification	Lot # 1011132
<p>incubation for 16 hours at 37°C.</p> <p>Antibiotic Resistance (Streptomycin) 15 µl of untransformed NEB® 10-beta Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Streptomycin will form colonies after incubation for 16 hours at 37°C.</p>	Pass
<p>Antibiotic Sensitivity (Nitrofurantoin) 15 µl of untransformed NEB® 10-beta Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Nitrofurantoin will not form colonies after incubation for 16 hours at 37°C.</p>	Pass
<p>Antibiotic Sensitivity (Spectinomycin) 15 µl of untransformed NEB® 10-beta Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Spectinomycin will not form colonies after incubation for 16 hours at 37°C.</p>	Pass
<p>Antibiotic Sensitivity (Tetracycline) 15 µl of untransformed NEB® 10-beta Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Tetracycline will not form colonies after incubation for 16 hours at 37°C.</p>	Pass
<p>Blue-White Screening (α-complementation, Competent Cells) NEB® 10-beta Competent E. coli (High Efficiency) were shown to be suitable for blue/white screening by α-complementation of the β-galactosidase gene using pUC19.</p>	Pass

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

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Production Scientist
25 May 2021



Nick Privitera
Packaging Quality Control Inspector
25 May 2021