NEW ENGLAND BioLabs Inc.
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New England Biolabs
Certificate of Analysis

Product Name: *NEB® 10-beta Competent E. coli (High Efficiency)*
Catalog Number: *C3019I*
Packaging Lot Number: *10120008*
Expiration Date: *08/2022*
Storage Temperature: *-80°C*
Specification Version: *PS-C3019H/I 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	10115609	**Pass**
C3019IVIAL	NEB® 10-beta Competent E. coli (High Efficiency)	10111343	**Pass**
B9035SVIAL	NEB® 10-beta/Stable Outgrowth Medium	10107508	**Pass**

Assay Name/Specification	Lot # 10120008
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.	**Pass**
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.	**Pass**
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.	**Pass**
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.	**Pass**
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	**Pass**

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Assay Name/Specification	Lot # 10120008
incubation for 16 hours at 37°C.	
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.	**Pass**
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.	**Pass**
Transformation Efficiency 50 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 x 10e9 cfu/µg of DNA.	**Pass**
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.	**Pass**
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.	**Pass**

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Lixin An
Production Scientist
25 Aug 2021

Corey Rabeau
Packaging Quality Control Inspector
25 Aug 2021