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New England Biolabs Certificate of Analysis

Product Name: NEB 10-beta Competent E. coli (High Efficiency)

Catalog Number: C3019P
Packaging Lot Number: 10151447
Expiration Date: 05/2023
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	10146225	Pass	
C3019PVIAL	NEB 10-beta Competent E. coli (High Efficiency)	10135093	Pass	
B9035SVIAL	NEB® 10-beta/Stable Outgrowth Medium	10145728	Pass	

Assay Name/Specification	Lot # 10151447
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
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 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
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 x 10e8 cfu/µg of DNA.	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



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Assay Name/Specification	Lot # 10151447
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
Phage Resistance (φ 80) 15 μI 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
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 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
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

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

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Lixin An

Production Scientist

06 May 2022

Corey Rabeau

Packaging Quality Control Inspector

06 May 2022



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