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New England Biolabs Certificate of Analysis

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

Catalog Number: C3019H
Lot Number: 10016305
Expiration Date: 07/2019
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	10010689	Pass	
C3019HVIAL	NEB® 10-beta Competent E. coli (High Efficiency)	10010395	Pass	
B9035SVIAL	NEB® 10-beta/Stable Outgrowth Medium	0301806	Pass	

Assay Name/Specification	Lot # 10016305
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
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
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 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



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Assay Name/Specification	Lot # 10016305
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
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 ncubation for 16 hours at 37°C.	Pass
Antibiotic Sensitivity (Spectinomycin) 5 µl of untransformed NEB® 10-beta Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Spectinomycin will not form colonies after necubation for 16 hours at 37°C.	Pass
Antibiotic Sensitivity (Tetracycline) 5 µl of untransformed NEB® 10-beta Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Tetracycline will not form colonies after ncubation for 16 hours at 37°C.	Pass

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

Lixin An

Production Scientist

01 Jun 2018

Nick Privitera

Packaging Quality Control Inspector

27 Jul 2018



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