

*be* INSPIRED *drive* DISCOVERY *stay* GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

## New England Biolabs Certificate of Analysis

Product Name:	NEBExpress® Competent E. coli (High Efficiency)
Catalog Number:	C2523I
Packaging Lot Number:	10231070
Expiration Date:	10/2025
Storage Temperature:	-80°C
Specification Version:	PS-C2523H/I v2.0

NEBExpress® Competent E. coli (High Efficiency) Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
N3041AVIAL	pUC19 Vector	10221047	Pass	
C2523IVIAL	NEBExpress® Competent E. coli (High Efficiency)	10176433	Pass	
B9020SVIAL	SOC Outgrowth Medium	10202682	Pass	

Assay Name/Specification	Lot # 10231070
Antibiotic Resistance (Nitrofurantoin) 15 µl of untransformed NEBExpress® Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Nitrofurantoin will form colonies after incubation for 16 hours at 37°C.	Pass
Antibiotic Sensitivity (Ampicillin) 15 µl of untransformed NEBExpress® 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 NEBExpress® 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 NEBExpress® 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 (Spectinomycin) 15 µl of untransformed NEBExpress® Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Spectinomycin will not form colonies after incubation	Pass





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Assay Name/Specification	Lot # 10231070
for 16 hours at 37°C.	
<b>Antibiotic Sensitivity (Streptomycin)</b> 15 μl of untransformed NEBExpress® Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Streptomycin will not form colonies after incubation for 16 hours at 37°C.	Pass
<b>Antibiotic Sensitivity (Tetracycline)</b> 15 μl of untransformed NEBExpress® 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
<b>Phage Resistance (<math>\phi</math> 80)</b> 15 µl of untransformed NEBExpress® Competent E. coli (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.	Pass
<b>Transformation Efficiency</b> 50 μl of NEBExpress® 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 >0.6 x 10e9 cfu/μg of DNA.	Pass

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

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Chris Blanchette Production Scientist 05 Oct 2023

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Nick Privitera Packaging Quality Control Inspector 06 Feb 2024

