

## New England Biolabs Certificate of Analysis

**Product Name:** NEB® Express Competent *E. coli* (High Efficiency)  
**Catalog Number:** C2523I  
**Packaging Lot Number:** 10064426  
**Expiration Date:** 11/2021  
**Storage Temperature:** -80°C  
**Specification Version:** PS-C2523H/I v1.0

| NEB® Express Competent <i>E. coli</i> (High Efficiency) Component List |   |            |                      |
|--|---|------------|----------------------|
| NEB Part Number  | Component Description                                   | Lot Number | Individual QC Result |
| N3041AVIAL   | pUC19 Vector  | 10058192   | Pass                 |
| C2523IVIAL   | NEB® Express Competent <i>E. coli</i> (High Efficiency) | 10009049   | Pass                 |
| B9020SVIAL   | SOC Outgrowth Medium                                    | 10058379   | Pass                 |

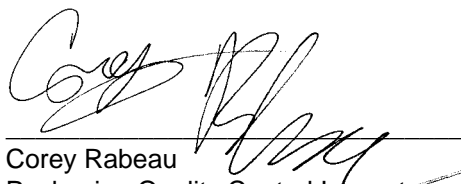
| Assay Name/Specification  | Lot # 10064426 |
|---|----------------|
| <b>Transformation Efficiency</b><br>50 µl of NEB Express Competent <i>E. coli</i> (High Efficiency) cells were transformed with 100 pg of pUC19 DNA using the transformation protocol provided. Incubation overnight on LB-Ampicillin plates at 37°C resulted in >0.6 x 10e9 cfu/µg of DNA. | <b>Pass</b>    |
| <b>Antibiotic Resistance (Nitrofurantoin)</b><br>15 µl of untransformed NEB Express Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Nitrofurantoin will form colonies after incubation for 16 hours at 37°C.   | <b>Pass</b>    |
| <b>Antibiotic Sensitivity (Ampicillin)</b><br>15 µl of untransformed NEB Express Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Ampicillin will not form colonies after incubation for 16 hours at 37°C.  | <b>Pass</b>    |
| <b>Antibiotic Sensitivity (Chloramphenicol)</b><br>15 µl of untransformed NEB Express Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Chloramphenicol will not form colonies after incubation for 16 hours at 37°C.                                  | <b>Pass</b>    |
| <b>Antibiotic Sensitivity (Kanamycin)</b><br>15 µl of untransformed NEB Express Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Kanamycin will not form colonies after incubation for  | <b>Pass</b>    |

| Assay Name/Specification   | Lot # 10064426 |
|--|----------------|
| <p>16 hours at 37°C.</p> <p><b>Antibiotic Sensitivity (Spectinomycin)</b><br/>15 µl of untransformed NEB Express 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> | <b>Pass</b>    |
| <p><b>Antibiotic Sensitivity (Streptomycin)</b><br/>15 µl of untransformed NEB Express 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.</p>                            | <b>Pass</b>    |
| <p><b>Antibiotic Sensitivity (Tetracycline)</b><br/>15 µl of untransformed NEB Express 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>                            | <b>Pass</b>    |
| <p><b>Phage Resistance (φ 80)</b><br/>15 µl of untransformed NEB Express 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>   | <b>Pass</b>    |

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



Lixin An  
Production Scientist  
12 Nov 2019



Corey Rabeau  
Packaging Quality Control Inspector  
07 Jan 2020