

New England Biolabs Certificate of Analysis

Product Name: NEBExpress® Competent *E. coli* (High Efficiency)
 Catalog Number: C2523H
 Packaging Lot Number: 10176534
 Expiration Date: 10/2024
 Storage Temperature: -80°C
 Specification Version: PS-C2523H/I v2.0

| NEBExpress® Competent <i>E. coli</i> (High Efficiency) Component List | | | |
|---|--|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| N3041AVIAL | pUC19 Vector | 10173306 | Pass |
| C2523HVIAL | NEBExpress® Competent <i>E. coli</i> (High Efficiency) | 10051910 | Pass |
| B9020SVIAL | SOC Outgrowth Medium | 10166765 | Pass |

| Assay Name/Specification | Lot # 10176534 |
|--|----------------|
| Antibiotic Resistance (Nitrofurantoin) 15 µl of untransformed NEBExpress® 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. | Pass |
| Antibiotic Sensitivity (Ampicillin) 15 µl of untransformed NEBExpress® 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. | Pass |
| Antibiotic Sensitivity (Chloramphenicol) 15 µl of untransformed NEBExpress® 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. | Pass |
| Antibiotic Sensitivity (Kanamycin) 15 µl of untransformed NEBExpress® Competent <i>E. coli</i> (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 (Streptomycin) 15 µl of untransformed NEBExpress® Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Streptomycin will not form colonies after incubation | Pass |

| Assay Name/Specification | Lot # 10176534 |
|---|----------------|
| <p>for 16 hours at 37°C.</p> <p>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 for 16 hours at 37°C.</p> | Pass |
| <p>Antibiotic Sensitivity (Tetracycline) 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.</p> | Pass |
| <p>Transformation Efficiency 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.</p> | Pass |
| <p>Phage Resistance (φ 80) 15 µl of untransformed NEBExpress® 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> | Pass |

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

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18 Oct 2022



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03 Jan 2023