

New England Biolabs Certificate of Analysis

Product Name: NEB® Turbo Competent *E. coli* (High Efficiency)
 Catalog Number: C2984I
 Packaging Lot Number: 10081582
 Expiration Date: 07/2021
 Storage Temperature: -80°C
 Specification Version: PS-C2984H/I v1.0

| NEB® Turbo Competent <i>E. coli</i> (High Efficiency) Component List | | | |
|--|---|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| N3041AVIAL | pUC19 Vector | 10078142 | Pass |
| C2984IVIAL | NEB® Turbo Competent <i>E. coli</i> (High Efficiency) | 10054283 | Pass |
| B9020SVIAL | SOC Outgrowth Medium | 10062408 | Pass |

| Assay Name/Specification | Lot # 10081582 |
|---|----------------|
| Blue-White Screening (α-complementation, Competent Cells) NEB® Turbo Competent <i>E. coli</i> (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 μ l of untransformed NEB® Turbo Competent <i>E. coli</i> (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 (Streptomycin) 15 μ l of untransformed NEB® Turbo Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Streptomycin will not form colonies after incubation for 16 hours at 37°C. | Pass |
| Antibiotic Sensitivity (Spectinomycin) 15 μ l of untransformed NEB® Turbo Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Spectinomycin will not form colonies after incubation for 16 hours at 37°C. | Pass |
| Antibiotic Sensitivity (Kanamycin) 15 μ l of untransformed NEB® Turbo 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 |

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|--|----------------|
| <p>Transformation Efficiency 50 µl of NEB® Turbo 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.</p> | Pass |
| <p>Phage Resistance (φ 80) 15 µl of untransformed NEB® Turbo 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 |
| <p>Antibiotic Sensitivity (Ampicillin) 15 µl of untransformed NEB® Turbo 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.</p> | Pass |
| <p>Antibiotic Resistance (Nitrofurantoin) 15 µl of untransformed NEB® Turbo Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Nitrofurantoin will form colonies after incubation for 16 hours at 37°C.</p> | Pass |
| <p>Antibiotic Sensitivity (Chloramphenicol) 15 µl of untransformed NEB® Turbo 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.</p> | Pass |

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

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Lixin An
Production Scientist
05 Aug 2020



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05 Aug 2020