NEW ENGLAND BioLabs Inc.
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# New England Biolabs
# Certificate of Analysis

*Product Name:* *NEB® 10-beta Electrocompetent E.coli*
*Catalog Number:* *C3020K*
*Packaging Lot Number:* *10070565*
*Expiration Date:* *03/2021*
*Storage Temperature:* *-80°C*
*Specification Version:* *PS-C3020K v1.0*

| NEB® 10-beta Electrocompetent E.coli Component List | | | |
|---|---|---|---|
| **NEB Part Number** | **Component Description** | **Lot Number** | **Individual QC Result** |
| N3041AVIAL | pUC19 Vector | 10064269 | **Pass** |
| C3020KVIAL | NEB® 10-beta Electrocompetent E.coli | 10069520 | **Pass** |
| B9035SVIAL | NEB® 10-beta/Stable Outgrowth Medium | 10062552 | **Pass** |

| Assay Name/Specification | Lot # 10070565 |
|---|---|
| **Antibiotic Sensitivity (Chloramphenicol)**<br>15 µl of untransformed NEB® 10-beta Electrocompetent E. coli streaked onto a LB or Rich Broth plate containing Chloramphenicol will not form colonies after incubation for 16 hours at 37°C. | **Pass** |
| **Antibiotic Sensitivity (Kanamycin)**<br>15 µl of untransformed NEB® 10-beta Electrocompetent E. coli streaked onto a LB or Rich Broth plate containing Kanamycin will not form colonies after incubation for 16 hours at 37°C. | **Pass** |
| **Antibiotic Sensitivity (Nitrofurantoin)**<br>15 µl of untransformed NEB® 10-beta Electrocompetent E. coli streaked onto a LB or Rich Broth plate containing Nitrofurantoin will not form colonies after incubation for 16 hours at 37°C. | **Pass** |
| **Antibiotic Sensitivity (Spectinomycin)**<br>15 µl of untransformed NEB® 10-beta Electrocompetent E. coli streaked onto a LB or Rich Broth plate containing Spectinomycin will not form colonies after incubation for 16 hours at 37°C. | **Pass** |
| **Antibiotic Sensitivity (Tetracycline)**<br>15 µl of untransformed NEB® 10-beta Electrocompetent E. coli streaked onto a LB or Rich Broth plate containing Tetracycline will not form colonies after incubation for | **Pass** |

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| 16 hours at 37°C. | |
| **Blue-White Screening (α-complementation, Competent Cells)**<br>NEB® 10-beta Electrocompetent E. coli were shown to be suitable for blue/white screening by α-complementation of the β-galactosidase gene using pUC19. | **Pass** |
| **Phage Resistance (ϕ 80)**<br>15 µl of untransformed NEB® 10-beta Electrocompetent E. coli 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**<br>25 µl of NEB® 10-beta Electrocompetent E. coli cells were transformed with 10 pg of pUC19 DNA using the transformation protocol provided. Incubation overnight on LB-Ampicillin plates at 37°C resulted in >2 x 10e10 cfu/µg of DNA. | **Pass** |
| **Antibiotic Sensitivity (Ampicillin)**<br>15 µl of untransformed NEB® 10-beta Electrocompetent E. coli streaked onto a LB or Rich Broth plate containing Ampicillin will not form colonies after incubation for 16 hours at 37°C. | **Pass** |
| **Antibiotic Resistance (Streptomycin)**<br>15 µl of untransformed NEB® 10-beta Electrocompetent E. coli streaked onto a LB or Rich Broth plate containing Streptomycin will form colonies after incubation for 16 hours at 37°C. | **Pass** |

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

Derek Robinson
Production Scientist
03 Mar 2020

Corey Rabeau
Packaging Quality Control Inspector
18 Mar 2020