

New England Biolabs Certificate of Analysis

Product Name: NEB® 10-beta Electrocompetent *E.coli*
Catalog Number: C3020K
Lot Number: 10017214
Expiration Date: 07/2019
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 | 10010689 | Pass |
| C3020KVIAL | NEB® 10-beta Electrocompetent <i>E.coli</i> | 10009838 | Pass |
| B9035SVIAL | NEB® 10-beta/Stable Outgrowth Medium | 0301806 | Pass |

| Assay Name/Specification | Lot # 10017214 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Antibiotic Sensitivity (Chloramphenicol) 15 µl of untransformed NEB® 10-beta Electrocompetent <i>E. coli</i> 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) 15 µl of untransformed NEB® 10-beta Electrocompetent <i>E. coli</i> 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) 15 µl of untransformed NEB® 10-beta Electrocompetent <i>E. coli</i> 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) 15 µl of untransformed NEB® 10-beta Electrocompetent <i>E. coli</i> 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) 15 µl of untransformed NEB® 10-beta Electrocompetent <i>E. coli</i> streaked onto a LB or Rich Broth plate containing Tetracycline will not form colonies after incubation for | Pass |

| Assay Name/Specification | Lot # 10017214 |
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| 16 hours at 37°C. | |
| <p>Blue-White Screening (α-complementation, Competent Cells) 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.</p> | Pass |
| <p>Phage Resistance (ϕ 80) 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.</p> | Pass |
| <p>Transformation Efficiency 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 $>2 \times 10^{10}$ cfu/μg of DNA.</p> | Pass |
| <p>Antibiotic Resistance (Streptomycin) 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.</p> | Pass |
| <p>Antibiotic Sensitivity (Ampicillin) 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.</p> | Pass |

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



Giuting Ren
Production Scientist
10 Jul 2018



Nick Privitera
Packaging Quality Control Inspector
31 Jul 2018