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New England Biolabs Certificate of Analysis

Product Name: NEB® 10-beta Competent E. coli (High Efficiency)

Catalog Number: C3019H
Lot Number: 10011196
Expiration Date: 05/2019
Storage Temperature: -80°C

Specification Version: PS-C3019H/I v1.0

| NEB® 10-beta Competent E. coli (High Efficiency) Component List | | | | |
|---|--|------------|----------------------|--|
| NEB Part Number | Component Description | Lot Number | Individual QC Result | |
| N3041AVIAL | pUC19 Vector | 40CC67 | Pass | |
| C3019HVIAL | NEB® 10-beta Competent E. coli (High Efficiency) | 10009097 | Pass | |
| B9035SVIAL | NEB® 10-beta/Stable Outgrowth Medium | 0271806 | Pass | |

| Assay Name/Specification | Lot # 10011196 |
|---|----------------|
| Blue-White Screening (α -complementation, Competent Cells) NEB® 10-beta Competent E. coli (High Efficiency) were shown to be suitable for blue/white screening by α -complementation of the β -galactosidase gene using pUC19. | Pass |
| Phage Resistance (φ 80) 15 μl of untransformed NEB® 10-beta 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. | Pass |
| Transformation Efficiency 50 μl of NEB® 10-beta 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. | Pass |
| Antibiotic Sensitivity (Nitrofurantoin) 15 µl of untransformed NEB® 10-beta Competent E. coli (High Efficiency) streaked onto a 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 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. | Pass |



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| Assay Name/Specification | Lot # 10011196 |
|--|----------------|
| Antibiotic Sensitivity (Tetracycline) 15 µl of untransformed NEB® 10-beta 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. | Pass |
| Antibiotic Sensitivity (Chloramphenicol) 15 µl of untransformed NEB® 10-beta 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. | Pass |
| Antibiotic Sensitivity (Kanamycin) 15 µl of untransformed NEB® 10-beta Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Kanamycin will not form colonies after incubation for 16 hours at 37°C. | Pass |
| Antibiotic Resistance (Streptomycin) 15 µl of untransformed NEB® 10-beta Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Streptomycin will form colonies after incubation for 16 hours at 37°C. | Pass |
| Antibiotic Sensitivity (Ampicillin) 15 µl of untransformed NEB® 10-beta 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. | Pass |

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

Lixin An

Production Scientist

06 Jun 2018

Corey Rabeau

Packaging Quality Control Inspector

06 Jun 2018



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