

be INSPIRED drive DISCOVERY stay GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

| Huffle® T7 Express lysY Competent E.coli |
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| :3030J |
| 0050799 |
| 7/2020 |
| 30°C |
| 'S-C3030J v1.0 |
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| SHuffle® T7 Express lysY Competent E.coli Component List | | | | |
|--|---|------------|----------------------|--|
| NEB Part Number | Component Description | Lot Number | Individual QC Result | |
| C3030JVIAL | SHuffle® T7 Express lysY Competent E.coli | 10015241 | Pass | |

| Assay Name/Specification | Lot # 10050799 |
|---|----------------|
| Antibiotic Resistance (Spectinomycin) 15 µl of untransformed Shuffle® T7 Express lysY Competent E. coli streaked onto a LB or Rich Broth plate containing Spectinomycin will form colonies after incubation for 16 hours at 37°C. | Pass |
| Antibiotic Resistance (Streptomycin) 15 µl of untransformed Shuffle® T7 Express lysY Competent E. coli streaked onto a LB or Rich Broth plate containing Streptomycin will form colonies after incubation for 16 hours at 37°C. | Pass |
| Antibiotic Sensitivity (Ampicillin) 15 µl of untransformed Shuffle® T7 Express lysY Competent 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 Sensitivity (Kanamycin) 15 µl of untransformed Shuffle® T7 Express lysY Competent 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 (Tetracycline) 15 µl of untransformed Shuffle® T7 Express lysY Competent E. coli streaked onto a LB or Rich Broth plate containing Tetracycline will not form colonies after incubation for 16 hours at 37°C. | Pass |
| Functional Testing (Disulfide Bond Formation) | Pass |





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| The nuclease NucA requires disulfide bonds for its stability. When expressed at 37°C in E. coli, NucA is toxic to cells only in its oxidized disulfide-bonded state. Transformation of SHuffle® T7 Express lysY Competent E. coli using 100 pg of plasmid that expresses a MBP-NucA fusion results in < 1% of the colonies when compared to a control transformation of its wild type parent strain NEB 10-beta. | |
| Phage Resistance (ϕ 80) 15 µl of untransformed Shuffle® T7 Express lysY Competent 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 50 μ I of SHuffle® T7 Express lysY Competent E. coli 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 10e7 cfu/ μ g of DNA. | Pass |
| Antibiotic Resistance (Chloramphenicol) 15 µl of untransformed Shuffle® T7 Express lysY Competent E. coli streaked onto a LB or Rich Broth plate containing Chloramphenicol will form colonies after incubation for 16 hours at 37°C. | Pass |
| Antibiotic Resistance (Nitrofurantoin) 15 µl of untransformed Shuffle® T7 Express lysY Competent E. coli streaked onto a LB or Rich Broth plate containing Nitrofurantoin 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.

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Derek Robinson Production Scientist 16 Jul 2018

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Nick Privitera Packaging Quality Control Inspector 20 Jul 2019

