

## New England Biolabs Certificate of Analysis

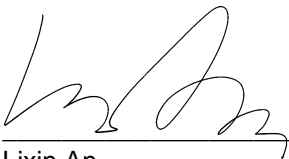
**Product Name:** T7 Express lysY/lq Competent *E. coli* (High Efficiency)  
**Catalog Number:** C3013I  
**Lot Number:** 10021468  
**Expiration Date:** 08/2020  
**Storage Temperature:** -80°C  
**Specification Version:** PS-C3013I v1.0

| T7 Express lysY/lq Competent <i>E. coli</i> (High Efficiency) Component List |   |            |                      |
|--|---|------------|----------------------|
| NEB Part Number  | Component Description   | Lot Number | Individual QC Result |
| C3013IVIAL   | T7 Express lysY/lq Competent <i>E. coli</i> (High Efficiency) | 10009044   | Pass                 |

| Assay Name/Specification  | Lot # 10021468 |
|---|----------------|
| <b>Antibiotic Resistance (Chloramphenicol)</b><br>15 µl of untransformed T7 Express lysY/lq Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Chloramphenicol will form colonies after incubation for 16 hours at 37°C.  | Pass           |
| <b>Antibiotic Resistance (Nitrofurantoin)</b><br>15 µl of untransformed T7 Express lysY/lq Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Nitrofurantoin will form colonies after incubation for 16 hours at 37°C.    | Pass           |
| <b>Antibiotic Sensitivity (Ampicillin)</b><br>15 µl of untransformed T7 Express lysY/lq Competent <i>E. coli</i> (High Efficiency) streaked onto a Rich Broth plate containing Ampicillin will not form colonies after incubation for 16 hours at 37°C.       | Pass           |
| <b>Antibiotic Sensitivity (Kanamycin)</b><br>15 µl of untransformed T7 Express lysY/lq 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           |
| <b>Antibiotic Sensitivity (Spectinomycin)</b><br>15 µl of untransformed T7 Express lysY/lq 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           |

| Assay Name/Specification   | Lot # 10021468 |
|--|----------------|
| <p><b>Antibiotic Sensitivity (Streptomycin)</b><br/>15 µl of untransformed T7 Express lysY/lq Competent E. coli (High Efficiency) streaked onto a Rich Broth plate containing Streptomycin will not form colonies after incubation for 16 hours at 37°C.</p>   | <b>Pass</b>    |
| <p><b>Antibiotic Sensitivity (Tetracycline)</b><br/>15 µl of untransformed T7 Express lysY/lq 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.</p>   | <b>Pass</b>    |
| <p><b>Phage Resistance (φ 80)</b><br/>15 µl of untransformed T7 Express lysY/lq 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>  | <b>Pass</b>    |
| <p><b>Transformation Efficiency</b><br/>50 µl of T7 Express lysY/lq 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 &gt;0.6 x 10<sup>9</sup> cfu/µg of DNA.</p> | <b>Pass</b>    |

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



Lixin An  
Production Scientist  
10 Sep 2018



Corey Rabeau  
Packaging Quality Control Inspector  
10 Sep 2018