

New England Biolabs Certificate of Analysis

Product Name: *SHuffle® T7 Competent E.coli*
 Catalog Number: C3026J
 Lot Number: 10034316
 Expiration Date: 01/2020
 Storage Temperature: -80°C
 Specification Version: PS-C3026J v1.0

SHuffle® T7 Competent E.coli Component List

NEB Part Number	Component Description	Lot Number	Individual QC Result
C3026JVIAL	SHuffle® T7 Competent E.coli	10024289	Pass

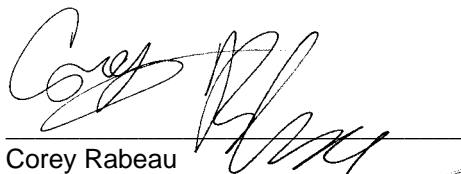
Assay Name/Specification	Lot # 10034316
<p>Antibiotic Sensitivity (Tetracycline) 15 µl of untransformed SHuffle® T7 Competent E. coli streaked onto a LB or Rich Broth plate containing Tetracycline will not form colonies after incubation for 16 hours at 37°C.</p>	Pass
<p>Functional Testing (Disulfide Bond Formation) 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 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.</p>	Pass
<p>Phage Resistance (φ 80) 15 µl of untransformed SHuffle® T7 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.</p>	Pass
<p>Transformation Efficiency 50 µl of SHuffle® T7 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 10e6 cfu/µg of DNA.</p>	Pass
<p>Antibiotic Resistance (Nitrofurantoin) 15 µl of untransformed SHuffle® T7 Competent E. coli streaked onto a LB or Rich Broth plate containing Nitrofurantoin will form colonies after incubation for 16 hours at 37°C.</p>	Pass

Assay Name/Specification	Lot # 10034316
<p>Antibiotic Resistance (Spectinomycin) 15 µl of untransformed SHuffle® T7 Competent E. coli streaked onto a LB or Rich Broth plate containing Spectinomycin will form colonies after incubation for 16 hours at 37°C.</p>	Pass
<p>Antibiotic Resistance (Streptomycin) 15 µl of untransformed SHuffle® T7 Competent 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 SHuffle® T7 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.</p>	Pass
<p>Antibiotic Sensitivity (Chloramphenicol) 15 µl of untransformed SHuffle® T7 Competent E. coli streaked onto a LB or Rich Broth plate containing Chloramphenicol will not form colonies after incubation for 16 hours at 37°C.</p>	Pass
<p>Antibiotic Sensitivity (Kanamycin) 15 µl of untransformed SHuffle® T7 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.</p>	Pass

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



Derek Robinson
Production Scientist
01 Oct 2018



Corey Rabeau
Packaging Quality Control Inspector
09 Jan 2019