

New England Biolabs Certificate of Analysis

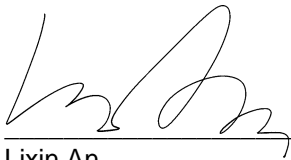
Product Name: NEB® 5-alpha Competent *E. coli* (Subcloning Efficiency)
 Catalog Number: C2988J
 Lot Number: 10011201
 Expiration Date: 05/2019
 Storage Temperature: -80°C
 Specification Version: PS-C2988J v1.0

NEB® 5-alpha Competent <i>E. coli</i> (Subcloning Efficiency) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
C2988JVIAL	NEB® 5-alpha Competent <i>E. coli</i> (Subcloning Efficiency)	10009061	Pass

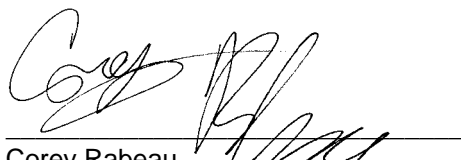
Assay Name/Specification	Lot # 10011201
<p>Phage Resistance (φ 80) 15 µl of untransformed NEB® 5-alpha Competent <i>E. coli</i> (Subcloning Efficiency) streaked onto a Rich Broth plate does not support plaque formation by phage φ 80 after incubation for 16 hours at 37°C.</p>	Pass
<p>Blue-White Screening (α-complementation, Competent Cells) NEB® 5-alpha Competent <i>E. coli</i> (Subcloning Efficiency) were shown to be suitable for blue/white screening by α-complementation of the β-galactosidase gene using pUC19.</p>	Pass
<p>Transformation Efficiency 50 µl of NEB® 5-alpha Competent <i>E. coli</i> (Subcloning 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 10⁶ cfu/µg of DNA.</p>	Pass
<p>Antibiotic Sensitivity (Spectinomycin) 15 µl of untransformed NEB® 5-alpha Competent <i>E. coli</i> (Subcloning Efficiency) streaked onto a Rich Broth plate containing Spectinomycin will not form colonies after incubation for 16 hours at 37°C.</p>	Pass
<p>Antibiotic Sensitivity (Streptomycin) 15 µl of untransformed NEB® 5-alpha Competent <i>E. coli</i> (Subcloning Efficiency) streaked onto a Rich Broth plate containing Streptomycin will not form colonies after incubation for 16 hours at 37°C.</p>	Pass

Assay Name/Specification	Lot # 10011201
<p>Antibiotic Sensitivity (Nitrofurantoin) 15 µl of untransformed NEB® 5-alpha Competent E. coli (Subcloning Efficiency) streaked onto a Rich Broth plate containing Nitrofurantoin will not form colonies after incubation for 16 hours at 37°C.</p>	Pass
<p>Antibiotic Sensitivity (Tetracycline) 15 µl of untransformed NEB® 5-alpha Competent E. coli (Subcloning Efficiency) streaked onto a Rich Broth plate containing Tetracycline will not form colonies after incubation for 16 hours at 37°C.</p>	Pass
<p>Antibiotic Sensitivity (Chloramphenicol) 15 µl of untransformed NEB® 5-alpha Competent E. coli (Subcloning Efficiency) streaked onto a 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 NEB® 5-alpha Competent E. coli (Subcloning Efficiency) streaked onto a Rich Broth plate containing Kanamycin will not form colonies after incubation for 16 hours at 37°C.</p>	Pass
<p>Antibiotic Sensitivity (Ampicillin) 15 µl of untransformed NEB® 5-alpha Competent E. coli (Subcloning Efficiency) streaked onto a 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.



Lixin An
Production Scientist
04 Jun 2018



Corey Rabeau
Packaging Quality Control Inspector
04 Jun 2018