

New England Biolabs Certificate of Analysis

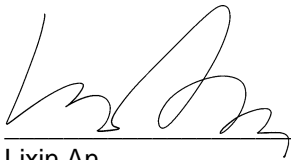
Product Name: NEB® 5-alpha Competent *E. coli* (Subcloning Efficiency)
Catalog Number: C2988J
Lot Number: 10044333
Expiration Date: 05/2020
Storage Temperature: -80°C
Specification Version: PS-C2988J v1.0

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)	10027496	Pass

Assay Name/Specification	Lot # 10044333
Antibiotic Sensitivity (Kanamycin) 15 µl of untransformed NEB® 5-alpha Competent <i>E. coli</i> (Subcloning Efficiency) streaked onto a Rich Broth plate containing Kanamycin will not form colonies after incubation for 16 hours at 37°C.	Pass
Antibiotic Sensitivity (Nitrofurantoin) 15 µl of untransformed NEB® 5-alpha Competent <i>E. coli</i> (Subcloning 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® 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.	Pass
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.	Pass
Antibiotic Sensitivity (Tetracycline) 15 µl of untransformed NEB® 5-alpha Competent <i>E. coli</i> (Subcloning Efficiency) streaked onto a Rich Broth plate containing Tetracycline will not form colonies after incubation for 16 hours at 37°C.	Pass

Assay Name/Specification	Lot # 10044333
<p>Blue-White Screening (α-complementation, Competent Cells) NEB® 5-alpha Competent E. coli (Subcloning Efficiency) were shown to be suitable for blue/white screening by α-complementation of the β-galactosidase gene using pUC19.</p>	Pass
<p>Phage Resistance (ϕ 80) 15 μl of untransformed NEB® 5-alpha Competent E. coli (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>Transformation Efficiency 50 μl of NEB® 5-alpha Competent E. coli (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 $>1 \times 10^6$ cfu/μg of DNA.</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 (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
30 Nov 2018



Nick Privitera
Packaging Quality Control Inspector
01 May 2019