

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

Product Name:	NEB® 5-alpha Competent E. coli (Subcloning Efficiency)
Catalog #:	C2988J
<i>Lot</i> #:	0471712
Assay Date:	12/2017
Expiration Date:	12/2018
Storage Temp:	-80°C
Specification Version:	PS-C2988J v1.0
Effective Date:	21 Jul 2017

Assay Name/Specification (minimum release criteria)	Lot #0471712
Antibiotic Sensitivity (Ampicillin) - 15 μ l of untransformed NEB® 5-alpha Competent <i>E. coli</i> (Subcloning Efficiency) streaked onto a Rich Broth plate containing Ampicillin will not form colonies after incubation for 16 hours at 37°C.	Pass
Antibiotic Sensitivity (Chloramphenicol) - 15 μ l of untransformed NEB® 5-alpha Competent <i>E. coli</i> (Subcloning Efficiency) streaked onto a Rich Broth plate containing Chloramphenicol will not form colonies after incubation for 16 hours at 37°C.	Pass
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 μ l 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 μ l 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 μ l 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



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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.	Pass
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.	Pass
Transformation Efficiency - 50 μ l 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 10e6 cfu/ μ g of DNA.	Pass

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Authorized by Derek Robinson 21 Jul 2017



Inspected by Lixin An 05 Dec 2017