

be INSPIRED drive DISCOVERY stay GENUINE

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 Electrocompetent E.coli
Catalog Number:	C2989K
Lot Number:	10042693
Expiration Date:	04/2020
Storage Temperature:	-80°C
Specification Version:	PS-C2989K v1.0

NEB® 5-alpha Electrocompetent E.coli Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
N3041AVIAL	pUC19 Vector	10035844	Pass	
C2989KVIAL	NEB® 5-alpha Electrocompetent E.coli	10033760	Pass	
B9020SVIAL	SOC Outgrowth Medium	10032898	Pass	

Assay Name/Specification	Lot # 10042693
Antibiotic Sensitivity (Ampicillin) 15 µl of untransformed NEB® 5-alpha Electrocompetent E. coli streaked onto a LB or Rich Broth plate containing Ampicillin will not form colonies after incubation for 16 hours at 37°C.	Pass
Antibiotic Sensitivity (Chloramphenicol) 15 µl of untransformed NEB® 5-alpha Electrocompetent E. coli streaked onto a LB or 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 Electrocompetent E. coli streaked onto a LB or 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 Electrocompetent E. coli streaked onto a LB or 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 Electrocompetent E. coli streaked onto a LB or Rich Broth plate containing Spectinomycin will not form colonies after incubation	Pass





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Assay Name/Specification	Lot # 10042693
for 16 hours at 37°C.	
Antibiotic Sensitivity (Streptomycin) 15 µl of untransformed NEB® 5-alpha Electrocompetent E. coli streaked onto a LB or Rich Broth plate containing Streptomycin will not form colonies after incubation for 16 hours at 37°C.	Pass
<b>Antibiotic Sensitivity (Tetracycline)</b> 15 μl of untransformed NEB® 5-alpha Electrocompetent E. coli streaked onto a LB or Rich Broth plate containing Tetracycline will not form colonies after incubation for 16 hours at 37°C.	Pass
Blue-White Screening ( $\alpha$ -complementation, Competent Cells) NEB® 5-alpha Electrocompetent E. coli were shown to be suitable for blue/white screening by $\alpha$ -complementation of the $\beta$ -galactosidase gene using pUC19.	Pass
<b>Phage Resistance (<math>\phi</math> 80)</b> 15 µl of untransformed NEB® 5-alpha Electrocompetent E. coli streaked onto a Rich Broth plate does not support plaque formation by phage $\phi$ 80 after incubation for 16 hours at 37°C.	Pass
<b>Transformation Efficiency</b> 25 μl of NEB® 5-alpha Electrocompetent E. coli cells were transformed with 10 pg of pUC19 DNA using the transformation protocol provided. Incubation overnight on LB-Ampicillin plates at 37°C resulted in >1 x 10e10 cfu/μg of DNA.	Pass

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

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Derek Robinson Production Scientist 15 Feb 2019

Corey Rabeau

Packaging Quality Control Inspector 11 Apr 2019

