

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 #:	С2989К	
Lot #:	0991709	
Assay Date:	09/2017	
Expiration Date:	09/2018	
Storage Temp:	-80°C	
Specification Version:	PS-C2989K v1.0	
Effective Date:	13 Sep 2017	

Assay Name/Specification (minimum release criteria)	
<b>Antibiotic Sensitivity (Ampicillin)</b> - 15 $\mu$ l of untransformed NEB® 5-alpha Electrocompetent <i>E. coli</i> streaked onto a LB or Rich Broth plate containing Ampicillin will not form colonies after incubation for 16 hours at 37°C.	
<b>Antibiotic Sensitivity (Chloramphenicol)</b> - 15 $\mu$ l of untransformed NEB® 5-alpha Electrocompetent <i>E. coli</i> streaked onto a LB or Rich Broth plate containing Chloramphenicol will not form colonies after incubation for 16 hours at 37°C.	
<b>Antibiotic Sensitivity (Kanamycin)</b> - 15 μl of untransformed NEB® 5-alpha Electrocompetent <i>E. coli</i> streaked onto a LB or Rich Broth plate containing Kanamycin will not form colonies after incubation for 16 hours at 37°C.	
<b>Antibiotic Sensitivity (Nitrofurantoin)</b> - 15 µl of untransformed NEB® 5-alpha Electrocompetent <i>E. coli</i> streaked onto a LB or Rich Broth plate containing Nitrofurantoin will not form colonies after incubation for 16 hours at 37°C.	
<b>Antibiotic Sensitivity (Spectinomycin)</b> - 15 $\mu$ l of untransformed NEB® 5-alpha Electrocompetent <i>E. coli</i> streaked onto a LB or Rich Broth plate containing Spectinomycin will not form colonies after incubation for 16 hours at 37°C.	
<b>Antibiotic Sensitivity (Streptomycin)</b> - 15 $\mu$ l of untransformed NEB® 5-alpha Electrocompetent <i>E. coli</i> streaked onto a LB or Rich Broth plate containing Streptomycin will not form colonies after incubation for 16 hours at 37°C.	
<b>Antibiotic Sensitivity (Tetracycline)</b> - 15 $\mu$ l of untransformed NEB® 5-alpha Electrocompetent <i>E. coli</i> streaked onto a LB or Rich Broth plate containing Tetracycline will not form colonies after incubation for 16 hours at 37° C.	Pass

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C2989K Lot: 0991709 Page 1 of 2



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Assay Name/Specification (minimum release criteria)         Blue-White Screening (α-complementation, Competent Cells) - NEB® 5-alpha Electrocompetent <i>E. coli</i> were shown to be suitable for blue/white screening by α-complementation of the β-galactosidase gene using pUC19.	
<b>Transformation Efficiency</b> - 25 $\mu$ l of NEB® 5-alpha Electrocompetent <i>E. coli</i> 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.	

Authorized by Quiting Ren 13 Sep 2017



Inspected by

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