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New England Biolabs
Certificate of Analysis

Product Name:	*dam⁻/dcm⁻ Competent E. coli*
Catalog #:	*C2925H/I*
Lot #:	*0581710*
Assay Date:	*10/2017*
Expiration Date:	*10/2018*
Storage Temp:	*-80°C*
Specification Version:	*PS-C2925H/I v1.0*
Effective Date:	*22 Nov 2016*

Assay Name/Specification (minimum release criteria)	**Lot #0581710**
Antibiotic Resistance (Chloramphenicol) - 15 µl of untransformed dam⁻/dcm⁻ Competent *E. coli* streaked onto a Rich Broth plate containing Chloramphenicol will form colonies after incubation for 16 hours at 37°C.	**Pass**
Antibiotic Resistance (Nitrofurantoin) - 15 µl of untransformed dam⁻/dcm⁻ Competent *E. coli* streaked onto a Rich Broth plate containing Nitrofurantoin will form colonies after incubation for 16 hours at 37°C.	**Pass**
Antibiotic Resistance (Streptomycin) - 15 µl of untransformed dam⁻/dcm⁻ Competent *E. coli* streaked onto a Rich Broth plate containing Streptomycin will form colonies after incubation for 16 hours at 37°C.	**Pass**
Antibiotic Sensitivity (Ampicillin) - 15 µl of untransformed dam⁻/dcm⁻ Competent *E. coli* streaked onto a Rich Broth plate containing Ampicillin will not form colonies after incubation for 16 hours at 37°C.	**Pass**
Antibiotic Sensitivity (Kanamycin) - 15 µl of untransformed dam⁻/dcm⁻ Competent *E. coli* streaked onto a Rich Broth plate containing Kanamycin will not form colonies after incubation for 16 hours at 37°C.	**Pass**
Antibiotic Sensitivity (Spectinomycin) - 15 µl of untransformed dam⁻/dcm⁻ Competent *E. coli* streaked onto a Rich Broth plate containing Spectinomycin will not form colonies after incubation for 16 hours at 37°C.	**Pass**
Antibiotic Sensitivity (Tetracycline) - 15 µl of untransformed dam⁻/dcm⁻ Competent *E. coli* streaked onto a Rich Broth plate containing Tetracycline will not form colonies after incubation for 16 hours at 37°C.	**Pass**
Phage Resistance (Φ 80) - 15 µl of untransformed dam⁻/dcm⁻ Competent *E. coli* 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 µl of dam⁻/dcm⁻ Competent *E. coli* 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/µg of DNA.	**Pass**

Authorized by
Derek Robinson
22 Nov 2016

Inspected by
Lixin An
03 Oct 2017

nqa ISO 9001 Registered Quality Management
nqa ISO 14001 Registered Environmental Management
nqa ISO 13485 Registered Medical Devices