

## New England Biolabs Product Specification

*Product Name:* *dam<sup>-</sup>/dcm<sup>-</sup> Competent E. coli*  
*Catalog #:* *C2925H/I*  
*Shelf Life:* *12 months*  
*Storage Temp:* *-80°C*  
*Specification Version:* *PS-C2925H/I v1.0*  
*Effective Date:* *09 Mar 2016*

### Assay Name/Specification (minimum release criteria)

**Antibiotic Resistance (Chloramphenicol)** - 15 µl of untransformed *dam<sup>-</sup>/dcm<sup>-</sup> Competent E. coli* streaked onto a Rich Broth plate containing Chloramphenicol will form colonies after incubation for 16 hours at 37°C.

**Antibiotic Resistance (Nitrofurantoin)** - 15 µl of untransformed *dam<sup>-</sup>/dcm<sup>-</sup> Competent E. coli* streaked onto a Rich Broth plate containing Nitrofurantoin will form colonies after incubation for 16 hours at 37°C.

**Antibiotic Resistance (Streptomycin)** - 15 µl of untransformed *dam<sup>-</sup>/dcm<sup>-</sup> Competent E. coli* streaked onto a Rich Broth plate containing Streptomycin will form colonies after incubation for 16 hours at 37°C.

**Antibiotic Sensitivity (Ampicillin)** - 15 µl of untransformed *dam<sup>-</sup>/dcm<sup>-</sup> Competent E. coli* streaked onto a Rich Broth plate containing Ampicillin will not form colonies after incubation for 16 hours at 37°C.

**Antibiotic Sensitivity (Kanamycin)** - 15 µl of untransformed *dam<sup>-</sup>/dcm<sup>-</sup> Competent E. coli* streaked onto a Rich Broth plate containing Kanamycin will not form colonies after incubation for 16 hours at 37°C.

**Antibiotic Sensitivity (Spectinomycin)** - 15 µl of untransformed *dam<sup>-</sup>/dcm<sup>-</sup> Competent E. coli* streaked onto a Rich Broth plate containing Spectinomycin will not form colonies after incubation for 16 hours at 37°C.

**Antibiotic Sensitivity (Tetracycline)** - 15 µl of untransformed *dam<sup>-</sup>/dcm<sup>-</sup> Competent E. coli* streaked onto a Rich Broth plate containing Tetracycline will not form colonies after incubation for 16 hours at 37°C.

**Phage Resistance (Φ 80)** - 15 µl of untransformed *dam<sup>-</sup>/dcm<sup>-</sup> 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.

**Transformation Efficiency** - 50 µl of *dam<sup>-</sup>/dcm<sup>-</sup> 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 10<sup>6</sup> cfu/µg of DNA.



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