

Clean Genome® *E. coli* MDS™ Competent Cells

Using synthetic biology methods, Scarab Genomics made a series of planned, precise deletions to the *E. coli* K-12 genome, reducing the genome by about 15%. The multiple-deletion series (MDS™) strains eliminate non-essential genes, cryptic virulence genes, and sequences for recombinogenic and mobile insertion sequence DNA, while preserving robust growth in rich and minimal media. Genome reduction results in superior genomic and plasmid stability, high transformation efficiency, increased cloning success with “unclonable” genes, and improved *E. coli* metabolic efficiency. Clean Genome *E. coli* MDS™ strains are safer and offer reduced background to significantly improve many molecular biology applications. Clean Genome *E. coli* MDS™ Competent Cell efficiency: Electrocompetent Cells >10⁹ cfu/μg pUC 19; Chemically Competent Cells ≥10⁸ cfu/μg pUC 19.

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