GoldBio Competent Cells

Products	*Transformation Efficiency*	*Applications and Characteristics*
DH10B Chemically Competent E. coli Cells (CC-100)	≥1 x 10^{10} CFU/µg	– Cloning and subcloning – Blue/white screening (ϕ80lacZΔM15) – *mcrA mcRBC*, and *mrr* deletion for cloning of methylcytosine and methyladenine-containing DNA – F' strain for high transformation efficiency – Endonuclease defficient (*endA1*)
DH5-alpha Chemically Competent E. coli Cells (CC-101)	≥1 x 10^{9} CFU/µg	– Cloning and subcloning – Blue/white screening (ϕ80lacZΔM15) – Resistant to phage T1 (*fhuA2*) – Increased plasmid yield and quality (*endA1* mutation)
BL21 Chemically Competent E. coli Cells (CC-102)	≥1 x 10^{8} CFU/µg	– Routine protein expression from non-T7 vectors – Deficient in Lon and OmpT proteases – Resistant to phage T1 *(fhuA2)*

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BL21 (DE3) Chemically Competent E. coli Cells (CC-103)	≥1 x 10^9 CFU/µg	– Routine protein expression from non-T7 vectors – For routine T7 expression – Deficient in Lon and OmpT proteases/B strain – Resistant to phage T1 (*fhuA2*)
DL39 (DE3) Chemically Competent E. coli Cells (CC-104)	≥1 x 10^7 CFU/µg	– Transformation and protein expression – Reduce NMR cross-labeling via transaminase activity for valine, isoleucine, aspartate, phenylalanine, tyrosine and tryptophan residues – Deficient in aromatic, branched-chain and aspartate transaminases – For routine T7 expression
DH10B Electrocompetent E. coli Cells (CC-200)	≥5 x 10^{10} CFU/µg	– Blue/white screening (ϕ80lacZΔM15) – *mcrA mcRBC*, and *mrr* deletion for cloning of methylcytosine and methyladenine-containing DNA – High transformation efficiency

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DH10B-Pro™ Electrocompetent E. coli Cells (CC-201)	≥5 x 10^{10} CFU/µg (Electroporation) 5-10 x 107 CFU/µg (100-500 kb DNA)	– Cloning--synthetic bio-applications, BAC cloning, assembling large and multi-DNA fragments – Transformation for ≥ 10 kb up to 350 kb
DH5-alpha Electrocompetent E. coli Cells (CC-203)	≥2 x 10^{10} CFU/µg	– High efficiency transformation for many applications including in plasmid isolation, cloning and subcloning – Increased plasmid yield and improved plasmid quality (*endA1* and *recA1* mutations)
BL21 (DE3) Electrocompetent E. coli Cells (CC-204)	≥1 x 10^{10} CFU/µg	– Protein expression and complex library expression – For routine T7 expression – Deficient in Lon and OmpT proteases – Resistant to phage T1 (*fhuA2*) – B strain
TG1 Phage Display Electrocompetent Cells (CC-205)	≥4 x 10^{10} CFU/µg	– Protein expression – Amber suppresor strain (*supE*) – Phage display library screening

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GV3101 Agrobacterium Electrocompetent Cells (CC-207)	≥1 x 10^7 CFU/µg	– Very high transformation efficiency – cDNA or gDNA library construction – T-DNA binary system for host with S genome (Ti plasmid) – Rifampicin resistance and gentamicin resistance (pTiC58DT-DNA) – *Agrobacterium* -mediated transformation
AGL-1 Agrobacterium Electrocompetent Cells (CC-208)	≥1 x 10^7 CFU/µg	– High transformation efficiency – cDNA or gDNA library construction – Stabilizes recombinant plasmids (*recA* mutation) – T-DNA binary system for host with S genome (Ti plasmid) – Rifampicin and carbenicillin resistance
Lactococcus lactis MG1363 Electrocompetent Cells (CC-209)	≥1 x 10^6 CFU/µg	– High transformation efficiency – cDNA or gDNA library construction
Lactococcus lactis IL1403 Electrocompetent Cells (CC-210)	≥1 x 10^6 CFU/µg	– High transformation efficiency – cDNA or gDNA library construction

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Products	*Transformation Efficiency*	*Applications and Characteristics*
LBA4404 Agrobacterium Electrocompetent Cells (CC-220)	≥1 x 10^7 CFU/µg	– High transformation efficiency – cDNA or gDNA library construction – Agrobacterium-mediated transformation – T-DNA binary system for host with S genome (Ti plasmid) – Rifampicin and carbenicillin resistance
EHA105 Agrobacterium Electrocompetent Cells (CC-225)	≥1 x 10^7 CFU/µg	– High transformation efficiency – cDNA or gDNA library construction – *Agrobacterium* -mediated transformation – T-DNA binary system for host with S genome (Ti plasmid) – Rifampicin resistance (pTiBo542DT-DNA)