

GoldBio Competent Cells



<i>Products</i>	<i>Transformation Efficiency</i>	<i>Applications and Characteristics</i>
<u>DH10B Chemically Competent E. coli Cells (CC-100)</u>	$\geq 1 \times 10^{10}$ CFU/ μ g	<ul style="list-style-type: none">– Cloning and subcloning– Blue/white screening (ϕ80lacZΔM15)– <i>mcrA mcrBC</i>, and <i>mrr</i> deletion for cloning of methylcytosine and methyladenine-containing DNA– F' strain for high transformation efficiency– Endonuclease deficient (<i>endA1</i>)
<u>DH5-alpha Chemically Competent E. coli Cells (CC-101)</u>	$\geq 1 \times 10^9$ CFU/ μ g	<ul style="list-style-type: none">– Cloning and subcloning– Blue/white screening (ϕ80lacZΔM15)– Resistant to phage T1 (<i>fhuA2</i>)– Increased plasmid yield and quality (<i>endA1</i> mutation)
<u>BL21 Chemically Competent E. coli Cells (CC-102)</u>	$\geq 1 \times 10^8$ CFU/ μ g	<ul style="list-style-type: none">– Routine protein expression from non-T7 vectors– Deficient in Lon and OmpT proteases– Resistant to phage T1 (<i>fhuA2</i>)

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BL21 (DE3) Chemically Competent E. coli Cells (CC-103)	$\geq 1 \times 10^9$ CFU/ μ g	<ul style="list-style-type: none"> – Routine protein expression from non-T7 vectors – For routine T7 expression – Deficient in Lon and OmpT proteases/B strain – Resistant to phage T1 (<i>fhuA2</i>)
DL39 (DE3) Chemically Competent E. coli Cells (CC-104)	$\geq 1 \times 10^7$ CFU/ μ g	<ul style="list-style-type: none"> – 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)	$\geq 5 \times 10^{10}$ CFU/ μ g	<ul style="list-style-type: none"> – Blue/white screening (ϕ80lacZΔM15) – <i>mcrA</i> <i>mcrBC</i>, and <i>mrr</i> deletion for cloning of methylcytosine and methyladenine-containing DNA – High transformation efficiency

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DH10B-Pro™ Electrocompetent E. coli Cells (CC-201)	$\geq 5 \times 10^{10}$ CFU/ μ g (Electroporation) 5- 10×10^7 CFU/ μ g (100-500 kb DNA)	<ul style="list-style-type: none"> – 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)	$\geq 2 \times 10^{10}$ CFU/ μ g	<ul style="list-style-type: none"> – High efficiency transformation for many applications including in plasmid isolation, cloning and subcloning – Increased plasmid yield and improved plasmid quality (<i>endA1</i> and <i>recA1</i> mutations)
BL21 (DE3) Electrocompetent E. coli Cells (CC-204)	$\geq 1 \times 10^{10}$ CFU/ μ g	<ul style="list-style-type: none"> – Protein expression and complex library expression – For routine T7 expression – Deficient in Lon and OmpT proteases – Resistant to phage T1 (<i>fhuA2</i>) – B strain
TG1 Phage Display Electrocompetent Cells (CC-205)	$\geq 4 \times 10^{10}$ CFU/ μ g	<ul style="list-style-type: none"> – Protein expression – Amber suppressor strain (<i>supE</i>) – Phage display library screening

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GV3101 Agrobacterium Electrocompetent Cells (CC-207)	$\geq 1 \times 10^7$ CFU/ μ g	<ul style="list-style-type: none"> – 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) – <i>Agrobacterium</i>-mediated transformation
AGL-1 Agrobacterium Electrocompetent Cells (CC-208)	$\geq 1 \times 10^7$ CFU/ μ g	<ul style="list-style-type: none"> – High transformation efficiency – cDNA or gDNA library construction – Stabilizes recombinant plasmids (<i>recA</i> mutation) – T-DNA binary system for host with S genome (Ti plasmid) – Rifampicin and carbenicillin resistance
Lactococcus lactis MG1363 Electrocompetent Cells (CC-209)	$\geq 1 \times 10^6$ CFU/ μ g	<ul style="list-style-type: none"> – High transformation efficiency – cDNA or gDNA library construction
Lactococcus lactis IL1403 Electrocompetent Cells (CC-210)	$\geq 1 \times 10^6$ CFU/ μ g	<ul style="list-style-type: none"> – High transformation efficiency – cDNA or gDNA library construction

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<u>LBA4404 Agrobacterium Electrocompetent Cells (CC-220)</u>	$\geq 1 \times 10^7$ CFU/ μ g	<ul style="list-style-type: none">– High transformation efficiency– cDNA or gDNA library construction– Agrobacterium-mediated transformation– T-DNA binary system for host with S genome (Ti plasmid)– Rifampicin resistance
<u>EHA105 Agrobacterium Electrocompetent Cells (CC-225)</u>	$\geq 1 \times 10^7$ CFU/ μ g	<ul style="list-style-type: none">– High transformation efficiency– cDNA or gDNA library construction– <i>Agrobacterium</i>-mediated transformation– T-DNA binary system for host with S genome (Ti plasmid)– Rifampicin resistance (pTiBo542DT-DNA)