



E. cloni[®] Competent Cells



Would you rather make your next discovery
or make competent cells?

- Direct replacements for standard cloning strains (e.g., DH5 α [™], DH10B[™], TOP10, XL1-Blue, etc.)
- Optimized genetics for high yields: phage T1 resistant, endonuclease and recombination minus, blue/white screening-capable.
- Available in a range of high transformation efficiencies (5×10^9 to 4×10^{10} cfu/ μ g).

Lucigen's *E. cloni* competent cells make the answer even more obvious by offering economical pricing and superior performance. These cells share the most useful genetic elements of standard cloning strains like DH5 α [™], DH10B[™] or JM109 and directly replace them in cloning protocols. However, the similarity to all those other competent cells ends there. What's different is that *E. cloni* cells incorporate a unique manufacturing technology that increases transformation efficiency and reliability, while decreasing costs.

Price per reaction of chemically competent "subcloning grade" cells.

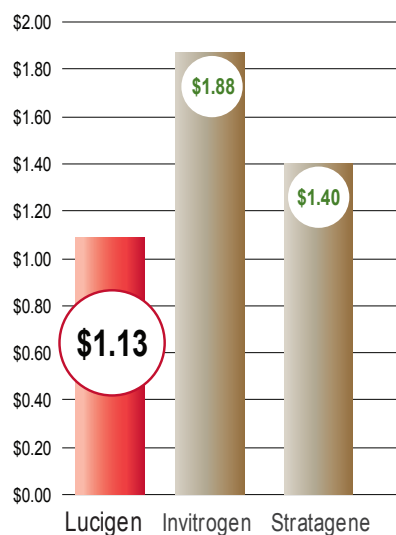


Table 1. *E. cloni* strains and transformation efficiencies.

	<i>E. cloni</i> Strain	Efficiency (cfu/ μ g)
Chemically Competent	5-alpha	1×10^8
	10G	1×10^9
	10G	1×10^6
	10GF'	5×10^8
Electrocompetent	10G SUPREME	4×10^{10}*
	10G ELITE	2×10^{10}
	10G CLASSIC	5×10^9
	10GF' ELITE	2×10^{10}
	BAC-Optimized Replicator	2×10^{10}

*Lucigen *E. cloni* SUPREMES have the highest transformation efficiencies available anywhere. See Figure 1, on back.

ORDER INFORMATION (complete information on back)

Competent Cells include Control DNA and Recovery Medium, and are packaged as SOLOs (1 transformation per tube), DUOs (2 transformations per tube), FIVERS (5 transformations per tube), SixPacks (6 transformations per tube), or subcloning grade (12 transformations per tube). Recovery Medium is also available separately.

PLEASE NOTE: Bulk quantities and/or custom packaging are available at very attractive prices for all Lucigen Competent Cells.



Four transformations (DUOs):

Chemically Competent ($\geq 1 \times 10^9$ cfu/ μ g) Cat. No. 60107-0
or
Electrocompetent ($\geq 2 \times 10^{10}$ cfu/ μ g) Cat. No. 60052-0

Offer valid while supplies last in the US & Canada only.

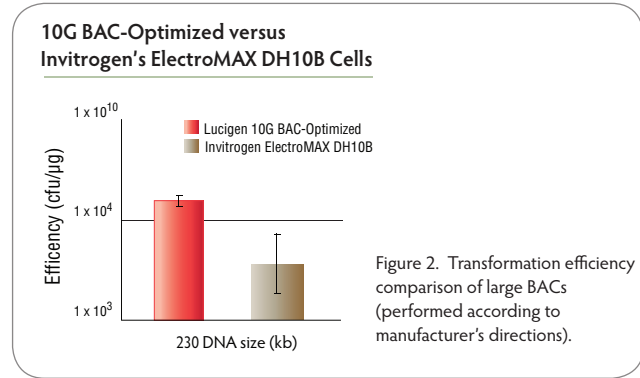
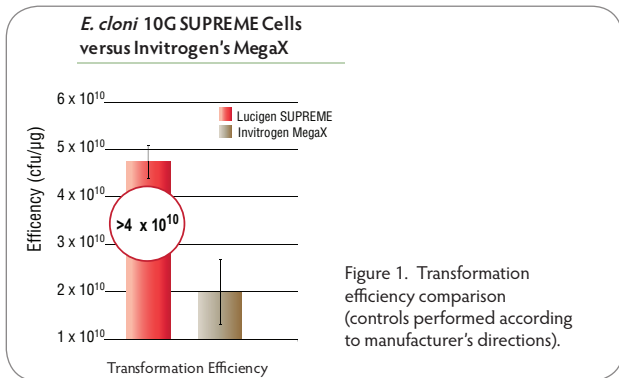


Table 2. Characteristics of *E. coli*® competent cells for cloning.

<i>E. coli</i> Strain	T1 phage resistant (tonA)	Reduces recombination (recA)	Improved plasmid quality/yield (endA)	Blue/white screening (lacZΔM15)	Single strand rescue (F')
5-alpha		✓	✓	✓	
10G	✓	✓	✓	✓	
10GF'	✓	✓	✓	✓	✓
BAC-Optimized Replicator		✓	✓	✓	

GENOTYPES:

***E. coli* 10G:** F- mcrA Δ(mrr-hsdRMS-mcrBC) endA1 recA1 Φ80dlacZΔM15 ΔlacX74 araD139 Δ(ara,leu)7697 galU galK rpsL nupG λ- tonA

***E. coli* 10GF':** [F' pro A+B+ lacIqZΔM15::Tn10 (TetR)] /mcrA Δ(mrr-hsdRMS-mcrBC) endA1 recA1 Φ80dlacZΔM15 ΔlacX74 araD139 Δ(ara, leu)7697 galU galK rpsL nupG λ tonA

Replicator v2.0: F- mcrA Δ(mrr-hsdRMS-mcrBC) endA1 recA1 Φ80dlacZΔM15 ΔlacX74 araD139 Δ(ara,leu)7697 galU galK rpsL nupG (attL araC-PBAD-trfA250 bla attR) λ-. Note that Replicator v2.0 cells are Amp^R (bla gene).

***E. coli* 5-alpha:** fhuA2Δ(argF-lacZ)U169 phoA glnV44 Φ80 Δ(lacZ)M15 gyrA96 recA1 relA1 endA1 thi-1 hsdR17

Products	Cat. No.	Size	Price
Electrocompetent Cells			
<i>E. coli</i> 10G SUPREME (≥4 × 10 ¹⁰ cfu/µg)	60081-1	12 rxns (SOLOs)	\$252
	60081-2	24 rxns (SOLOs)	\$449
	60080-1	12 rxns (DUOs)	\$221
	60080-2	24 rxns (DUOs)	\$408
<i>E. coli</i> 10G ELITE (≥2 × 10 ¹⁰ cfu/µg)	60051-1	12 rxns (SOLOs)	\$160
	60051-2	24 rxns (SOLOs)	\$277
	60052-1	12 rxns (DUOs)	\$139
	60052-2	24 rxns (DUOs)	\$241
	60052-3	24 rxns (SixPacks)	\$184
	60052-4	48 rxns (SixPacks)	\$307
<i>E. coli</i> 10G CLASSIC (≥5 × 10 ⁹ cfu/µg)	60117-1	24 rxns (SixPacks)	\$158
	60117-2	48 rxns (SixPacks)	\$283
<i>E. coli</i> 10GF' (≥2 × 10 ¹⁰ cfu/µg)	60061-1	12 rxns (DUOs)	\$139
	60061-2	24 rxns (DUOs)	\$241
BAC-Optimized Replicator™ v2.0 (≥2 × 10 ¹⁰ cfu/µg)	60210-1	12 rxn (DUOs)	\$150
	60210-2	24 rxn (DUOs)	\$263
<i>E. coli</i> 10G BAC-Optimized (≥1 × 10 ¹⁰ cfu/µg)	60215-1	10 rxns (FIVERS)	\$111
	60215-2	25 rxns (FIVERS)	\$255

Products	Cat. No.	Size	Price
Chemically Competent Cells			
<i>E. coli</i> 10G (≥1 × 10 ⁹ cfu/µg)	60106-1	12 rxns (SOLOs)	\$111
	60106-2	24 rxns (SOLOs)	\$196
	60106-3	48 rxns (SOLOs)	\$327
	60107-1	12 rxns (DUOs)	\$99
<i>E. coli</i> 10G (≥1 × 10 ⁶ cfu/µg)	60107-2	24 rxns (DUOs)	\$171
	60107-3	48 rxns (DUOs)	\$283
	60107-4	96 rxns (DUOs)	\$505
	60108-1	48 rxns (12 rxn/tube)	\$57
<i>E. coli</i> 10G (≥1 × 10 ⁶ cfu/µg)	60108-2	96 rxns (12 rxn/tube)	\$108
	<i>E. coli</i> 10GF' (≥5 × 10 ⁸ cfu/µg)	60062-1	12 rxns (DUOs)
60062-2		24 rxns (DUOs)	\$171
<i>E. coli</i> 5-alpha (≥1 × 10 ⁸ cfu/µg)	60602-1	12 rxns (DUOs)	\$99
	60602-2	24 rxns (DUOs)	\$171