

Competent Cells Comparison

LUCIGEN				INVITROGEN				STRATAGENE			
	Efficiency (cfu/ μ g pUC DNA)	Size	Price/rxn		Efficiency (cfu/ μ g pUC DNA)	Size	Price/rxn		Efficiency (cfu/ μ g pUC DNA)	Size	Price/rxn
Cloning Cells - DH5α, DH10B, etc. Substitute											
<i>E. coli</i> ® 10G SUPREME Electrocompetent (DUOs)	$\geq 4 \times 10^{10}$	12 rxns	\$17.92	MegaX DH10B™ Electrocompetent	$>3 \times 10^{10}$	25 rxns	\$10.28	ElectroTen-Blue® Electrocompetent	$\geq 3 \times 10^{10}$	12 rxns	\$20.10
		24 rxns	\$16.50								
<i>E. coli</i> 10G ELITE Electrocompetent (Six Packs)	$\geq 2 \times 10^{10}$	24 rxns	\$7.46	ElectroMAX™ DH10B™ Electrocompetent	$\geq 1 \times 10^{10}$	25 rxns	\$9.12	XL-1 Blue Electrocompetent	$\geq 1 \times 10^{10}$	12 rxns	\$20.00
		48 rxns	\$6.21								
<i>E. coli</i> 10G CLASSIC Electrocompetent (Six Packs)	$\geq 5 \times 10^9$	24 rxns	\$6.38	TOP10 Electrocompetent	$\geq 1 \times 10^9$	20 rxns	\$9.35	No equivalent.			
		48 rxns	\$5.73			40 rxns	\$8.80				
						120 rxns	\$8.50				
<i>E. coli</i> 10G Chemically Competent (DUOs)	$\geq 1 \times 10^8$	12 rxns	\$8.00	One Shot® TOP10 Chemically Competent	$\geq 1 \times 10^9$	10 rxns	\$20.10	XL-10 Gold® Ultracompetent	$\geq 5 \times 10^9$	10 rxns	\$15.10
		24 rxns	\$6.92			20 rxns	\$16.35				
		48 rxns	\$5.73			40 rxns	\$15.75	XL-1 Blue Supercompetent	$\geq 1 \times 10^9$	10 rxns	\$18.50
		96 rxns	\$5.10			10 rxns	\$21.50				
<i>E. coli</i> 5 α Chemically Competent Cells (DUOs)	$\geq 1 \times 10^8$	12 rxns	\$8.00	Max Efficiency® DH5 α Chemically Competent	$\geq 1 \times 10^9$	10 rxns	\$17.20	No equivalent.			
		24 rxns	\$6.92								
Phage Display											
TG1 Electrocompetent Cells (DUOs)	$\geq 2 \times 10^{10}$	12 rxns	\$11.25	No equivalent.				TG1 Electrocompetent Cells	$\geq 1 \times 10^{10}$	10 rxns	\$20.00
		24 rxns	\$9.75								
SS320 (MC1061 F') Electrocompetent Cells (DUOS)	$\geq 4 \times 10^{10}$	12 rxns	\$12.50	No equivalent.				No equivalent.			
		24 rxns	\$10.42								
ER2738 Electrocompetent Cells (DUOS)	$\geq 2 \times 10^{10}$	12 rxns	\$11.25	No equivalent.				No equivalent.			
		24 rxns	\$9.75								
F' Cells											
<i>E. coli</i> 10GF' ELITE Electrocompetent	$\geq 2 \times 10^{10}$	12 rxns	\$11.25	Top10F' Electrocompetent	$\geq 1 \times 10^9$	40 rxns	\$8.85	XL-1 Blue MRF' Electrocompetent	$\geq 1 \times 10^{10}$	10 rxns	\$20.00
		24 rxns	\$9.79			120 rxns	\$8.30				
<i>E. coli</i> 10GF' Chemically Competent	$\geq 5 \times 10^8$	12 rxns	\$8.00	Top10F' Chemically Competent	$\geq 1 \times 10^9$	20 rxns	\$16.25	XL-1 Blue MRF' Chemcompetent	$\geq 1 \times 10^9$	10 rxns	\$18.50
		24 rxns	\$6.92			40 rxns	\$16.00				
Protein Expression BL21(DE3) Cells - Also available in pLysS and pLysE versions, as well as a ComboPack™ containing 4 transformations of all 3 strains											
<i>E. coli</i> EXPRESS BL21(DE3) Electrocompetent	$\geq 5 \times 10^9$	12 rxns	\$7.67	No equivalent.				No equivalent.			
		24 rxns	\$6.83								
<i>E. coli</i> EXPRESS BL21(DE3) Chemically Competent	$\geq 1 \times 10^7$	12 rxns	\$4.83	One Shot BL21(DE3) Chemcomp	1×10^8	20 rxns	\$11.40	BL21-Gold® (DE3) Chemcomp	$\geq 1 \times 10^8$	10 rxns	\$18.00
		24 rxns	\$3.46					BL21(DE3) Chemcomp	$\geq 1 \times 10^6$	10 rxns	\$14.50
		48 rxns	\$2.52								
Toxic Protein Expression - OverExpress Cells (for expressing toxic proteins) - Also available in pLysS versions, as well as a ComboPack containing 3 transformations of all 4 strains											
OverExpress™ C41(DE3) Electrocompetent	$\geq 1 \times 10^{10}$	12 rxns	\$18.83	No equivalent.				No equivalent.			
		24 rxns	\$16.58								
OverExpress C43(DE3) Electrocompetent	$\geq 1 \times 10^{10}$	12 rxns	\$18.83	No equivalent.				No equivalent.			
		24 rxns	\$16.58								
OverExpress C41(DE3) Chemically Competent	$\geq 1 \times 10^6$	12 rxns	\$15.92	No equivalent.				No equivalent.			
		24 rxns	\$14.08								
OverExpress C43(DE3) Chemically Competent	$\geq 1 \times 10^6$	12 rxns	\$15.92	No equivalent.				No equivalent.			
		24 rxns	\$14.08								

Ordering Information (see www.lucigen.com)

Cross-Reference

Cat. No.	Product Description	Size	List Price	Invitrogen Cat. No.	Stratagene Cat. No.
60081-1	<i>E. clon</i> [®] 10G SUPREME Electrocompetent (SOLOs)	12 rxns	\$245	C6400-03	200159
60081-2		24 rxns	\$436		
60080-1	<i>E. cloni</i> 10G SUPREME Electrocompetent (DUOs)	12 rxns	\$215	C6400-03	200159
60080-2		24 rxns	\$396		
60051-2	<i>E. cloni</i> 10G ELITE Electrocompetent (SOLOs)	12 rxns	\$155	12033-015	200227
60051-2		24 rxns	\$269		
60052-1	<i>E. cloni</i> 10G ELITE Electrocompetent (DUOs)	12 rxns	\$135	18290-015	200227
60052-2		24 rxns	\$234		
60052-3	<i>E. cloni</i> 10G ELITE Electrocompetent (SixPacks)	24 rxns	\$170	C800-05	
60052-4		48 rxns	\$284		
60117-1	<i>E. cloni</i> 10G CLASSIC Electrocompetent (SixPacks)	24 rxns	\$146	C664-55	No Equivalent
60117-2		48 rxns	\$263	C664-11	
60061-1	<i>E. cloni</i> 10GF' Electrocompetent (DUOs)	12 rxns	\$129	C665-11	200158
60061-2		24 rxns	\$223	C665-24	
60300-1	<i>E. cloni</i> EXPRESS BL21(DE3) Electrocompetent	12 rxns	\$88	No Equivalent	No Equivalent
60300-2		24 rxns	\$156		
60522-1	ER2738 Electrocompetent Cells (DUOS)	12 rxns	\$135	No Equivalent	No Equivalent
60522-2		24 rxns	\$234		
60512-1	SS320 (MC1061 F') Electrocompetent Cells (DUOS)	12 rxns	\$150	No Equivalent	No Equivalent
60512-2		24 rxns	\$250		
60502-1	TG1 Electrocompetent Cell (DUOs)	12 rxns	\$129	No Equivalent	200123
60502-2		24 rxns	\$223		
60062-1	<i>E. cloni</i> 10GF' Chemcompetent (DUOs)	12 rxns	\$91	C3030-03	200230
60062-2		24 rxns	\$158	C3030-06	
60106-1	<i>E. cloni</i> 10G Chemcompetent (SOLOs)	12 rxns	\$103	C4040-03	200130
60106-2		24 rxns	\$181		
60106-3	<i>E. cloni</i> 10G Chemcompetent (DUOs)	48 rxns	\$302	C4040-06	200150
60107-1		12 rxns	\$91	C4040-10	200236
60107-2	<i>E. cloni</i> 10G Chemcompetent (DUOs)	24 rxns	\$158	18297-010	200249
60107-3		48 rxns	\$263		
60107-4		96 rxns	\$467		
60401-1	<i>E. cloni</i> EXPRESS BL21(DE3) Chemcomp	12 rxns	\$58	C6000-03	230131
60401-2		24 rxns	\$83		230132
60401-3		48 rxns	\$121		
60602-1	<i>E. cloni</i> 5 α Chemically Competent Cells (DUOs)	12 rxns	\$91	18258-12	No Equivalent
60602-2		24 rxns	\$158		
60341-1	OverExpress™ C41(DE3) Electrocompetent (SOLOs)	12 rxns	\$215	No equivalent	No equivalent
60341-2		24 rxns	\$382		
60345-1	OverExpress C43(DE3) Electrocompetent (SOLOs)	12 rxns	\$215	No equivalent	No equivalent
60345-2		24 rxns	\$382		
60350-1	OverExpress ElectroComboPack (SOLOs)	12 rxns	\$215	No equivalent	No equivalent
60442-1	OverExpress C41(DE3) Chemcomp (SOLOs)	12 rxns	\$182		
60442-2	OverExpress C41(DE3) Chemcomp (SOLOs)	24 rxns	\$322	No equivalent	No equivalent
60446-1	OverExpress C43(DE3) Chemcomp (SOLOs)	12 rxns	\$182		
60446-2	OverExpress C43(DE3) Chemcomp (SOLOs)	24 rxns	\$322	No equivalent	No equivalent
60452-1	OverExpress ChemComboPack (SOLOs)	12 rxns	\$182		

Lucigen Competent Cells

Competent Cells include Recovery Medium and Control DNA, and are packaged as SOLOs (1 transformation per tube), DUOs (2 transformations per tube), or SixPacks (6 transformations per tube), as indicated.

PLEASE NOTE: Bulk quantities (10 times larger than the largest retail package size) and/or custom packaging are available at very attractive prices for all Lucigen Competent Cells. Custom packaging options include: pre-dispensed cells in standard 96-well plates; tubes; BTX 25-well electroporation strips, and BTX 96-well electroporation plates.

E. cloni Competent Cell Genotypes

E. cloni 10G

F- mcrA Δ (mrr-hsdRMS-mcrBC) Φ 80dlacZ Δ M15 Δ lacX74 endA1 recA1araD139 Δ (ara, leu)7697 galU galK rpsL nupG λ - tonA

E. cloni 10GF'

[F' pro A+B+ lacIqZ Δ M15::Tn10 (Tetr)] mcrA Δ (mrr-hsdRMS-mcrBC) Φ 80dlacZ Δ M15 Δ lacX74 endA1 recA1araD139 Δ (ara, leu)7697 galU galK rpsL nupG λ - tonA

E. cloni 5-alpha

fhuA2 Δ (argF-lacZ)U169 phoA glnV44 Φ 80 Δ (lacZ)M15 gyrA96 recA1 relA1 endA1 thi-1 hsdR17

ER2738

F' proA+B+lacIq Δ (lacZ)MI5zzf::Tn10(Tetr)/fhuA2 glnV Δ (lac-proAB) thi-I Δ (hsdS-mcrB)5

SS320 (MC1061 F')

F' hsdR2 hsdM+hsdS+ araD139 Δ (lac-proAB) thi-I Δ (hsdS-mcrB)5

TG1 Electrocompetent Cells

supE thi-1 Δ (lac-proAB) Δ (mcrB-hsdSM)5(rK- mK-) [F' traD36 proAB lacIqZ Δ M15]

EXPRESS BL21(DE3)

F- ompT hsdSB(rB- mB-) gal dcm(DE3)

OverExpress C41(DE3) & C43(DE3)

F- ompT gal hsdSB(rB- mB-) dcm (DE3) + two uncharacterized mutations



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