ZYMO RESEARCH
The Beauty of Science is to Make Things Simple®

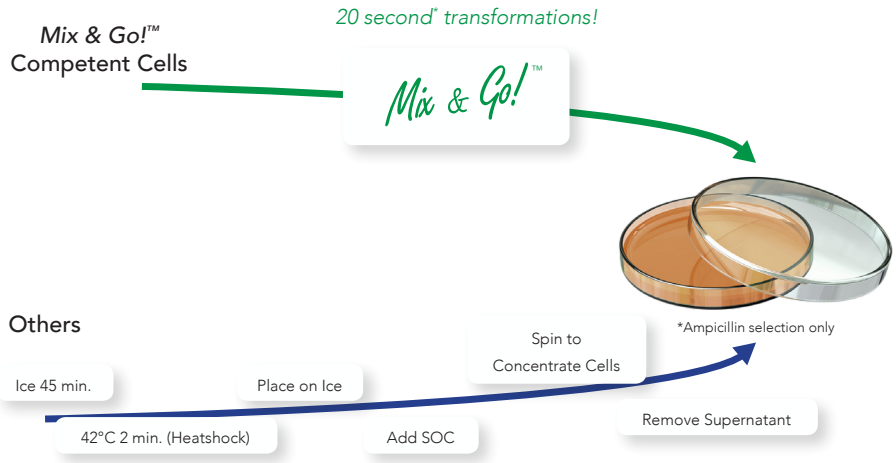
Fast and Efficient Competent *E. coli*

Premade strains available or kits to prepare your own

Mix & Go!™ Competent Cells

- **Simple 20 Second Transformation:** No heat shock! Just add DNA and spread on a plate.
- **High Transformation Efficiencies:** Achieve 10^8 – 10^9 transformants per µg of plasmid DNA.
- **Versatile:** Excellent for general cloning, blue-white screening, and plasmid isolation.
- **Prepare Your Own:** Easy 3 step protocol to produce reliable chemically competent *E. coli* in ≤ 45 minutes.

Simple 20 second Transformation



Product	Cat. No.	Size	Uses
Mix & Go!™ E. coli Transformation Kit	T3001	up to 20 ml	Preparation of competent *E. coli*
Mix & Go!™ E. coli Transformation Buffer Set	T3002	up to 60 ml	Preparation of competent *E. coli*

Strain	Cat. No.	Size
JM109	T3003 T3005	10 x 100 µl aliquots (10 tubes) 96 x 50 µl aliquots (12 x 8-tube strips)
DH5 Alpha	T3007 T3009 T3010	10 x 100 µl aliquots (10 tubes) 96 x 50 µl aliquots (12 x 8-tube strips) 96 x 50 µl aliquots (PCR plate)
HB101	T3011 T3013	10 x 100 µl aliquots (10 tubes) 96 x 50 µl aliquots (12 x 8-tube strips)
TG1	T3017	10 x 100 µl aliquots (10 tubes)
Zymo 10B	T3019 T3020	10 x 100 µl aliquots (10 tubes) 96 x 50 µl aliquots (12 x 8-tube strips)

info@zymoresearch.com www.zymoresearch.com Toll Free: (888) 882-9682

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Product Guide: *Mix & Go!*™ Competent *E. coli*

	JM109	DH5 Alpha	HB101	TG1	Zymo 10B
Specifications					
Strain Background	K-12	K-12	K-12	K-12	K-12
General Cloning	✓	✓	✓	✓	✓
Plasmid Isolation	✓	✓	✓	✓	✓
Recombinant Protein Expression	✓				
Production of ssDNA (F'episome)	✓			✓	
Suppression of Amber Mutations (glnV44 or supE44)	✓	✓	✓	✓	
Blue-White Selection (lacZΔM15)	✓	✓		✓	✓
High-quality and Yield of Plasmid DNA (endA1)	✓	✓			✓
Reduced Recombination & Insert Stability (recA1 or recA13)	✓	✓	✓		✓
Plasmid Size	Up to 10-15 kb		Up to 10-15 kb	Up to 10-15 kb	
Transformation of Large Plasmids (deoR)		Up to 20-32 kb			Up to 20-32 kb
Ampicillin Resistant (bla or ampR)					
Chloramphenicol Resistant (cat or CmR or CamR)					
Tetracycline Resistant (Tn10 or tetR)					
Kanamycin Resistant (KanR)					
Nalidixic Acid Resistant (gyrA96 or NalR)	✓	✓			
Streptomycin Resistant (StrR)			✓		✓
Genotype	F'[traD36 proA+B+ laclq Δ(lacZ)M15] Δ(lac-proAB) glnV44 (supE44) e14- (McrA-) thi gyrA96 (NalR) endA1 hsdR17(rk-mk+) relA1 recA1	F- φ80lacZΔM15 Δ(lacZYA-argF)U169 deoR nupG recA1 endA1 hsdR17(rK-mK+) phoA glnV44 (supE44) thi-1 gyrA96 relA1, λ-	F- Δ(gpt-proA)62 leuB6 glnV44 (supE44) ara-14 galK2 lacY1 Δ(mcrC-mrr) xyl-5 mtl-1 recA13 thi-1 rpsL20 (SmR)	F'[traD36 laclq Δ(lacZ) M15 proA+B+] glnV (supE) thi-1 Δ(mcrB-hsdSM)5 (rK- mK-McrB-) thi Δ(lac-proAB)	F- mcrA Δ(mrr-hsdRMS-mcrBC) Φ80lacZΔM15 ΔlacX74 recA1 endA1 araD139 Δ(ara leu) 7697 galU galK rpsL nupG λ-
Catalog Number	T3003	T3007	T3011	T3017	T3019

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