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Data Sheet

Competent *E. coli* Top10 cells

Cat. No.: 5-1600-020
Lot No.: 0286-

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Description	Competent *E. coli* Top10 cells Genotype: F$^-$ *mcr*A Δ(*mrr-hsd*RMS-*mcr*BC) ϕ80*lac*ZΔM15 Δ*lac*X74 *rec*A1 *ara*Δ139 Δ(*ara-leu*)7697 *gal*U *gal*K *rps*L (Str^R) *end*A1 *nup*G
Form	One-shot reaction
Transformation Efficiency	>1x10^7 cfu/µg supercoiled DNA
Stability	12 months after shipping
Storage	store in cryo storage system at -90 – -60°C
Shipping	dry ice
Hazards	Product is not classified as hazardous according to (EC) No 1272/2008 [CLP]. A Material Safety Data Sheet is provided.

Protocol:

1. Thaw a vial of competent TOP10 *E. coli* cells on ice.
2. Pipet up to 10 µl DNA (e.g. from a StarGate® ligation reaction) to the thawed competent TOP10 *E. coli* cells.
3. Mix gently (do not vortex) then incubate for 30 min on ice.
4. Mix gently (do not vortex) then incubate for 5 min at 37 °C.
5. Mix gently (do not vortex) then incubate for 2-5 min on ice.
6. Add 900 µl LB medium and shake for 45 min at 37 °C.

   Caution: To express resistance genes prior to plating on plates for selection this incubation step is necessary especially when using kanamycin.
7. Plate 100 µl on LB agar containing antibiotic (if required) and 50 mg/L X-gal (optional).
8. Centrifuge the residual 900 µl cell mixture for 30 sec in a microfuge, resuspend the cell sediment with 100 µl LB medium and plate the whole amount as above.
9. Incubate plates over night at 37 °C.
10. Pick single colonies for further analyses (plasmid isolation, PCR…)

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