

Data Sheet

Competent *E. coli* Top10 cells

Cat. No.: 5-1600-001; 5-1600-005; 5-1600-015; 5-1600-020

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Lot No.:

Description	Competent <i>E. coli</i> Top10 cells Genotype: F ⁻ <i>mcrA</i> Δ(<i>mrr-hsdRMS-mcrBC</i>) φ80 <i>lacZ</i> ΔM15 Δ <i>lacX74</i> <i>recA1</i> <i>ara</i> Δ139 Δ(<i>ara-leu</i>)7697 <i>galU</i> <i>galK</i> <i>rpsL</i> (Str ^R) <i>endA1</i> <i>nupG</i>
Form	One-shot reaction
Transformation Efficiency	>1x10 ⁷ cfu/μg supercoiled DNA
Stability	6 months after shipping
Storage	Store at -80 °C
Shipment	Dry ice

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) and incubate subsequently for 30 min on ice.
4. Mix gently (do not vortex) and incubate subsequently for 5 min at 37 °C.
5. Mix gently (do not vortex) and incubate subsequently 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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