

TransStbl3 Chemically Competent Cell

Cat. No. CD521

Storage: at -70°C or below for six months. Do not store in liquid nitrogen.

Description

*Trans*Stb13 Chemically Competent Cell is specifically designed for chemical transformation of DNA. It permits a transformation efficiency of over 108cfu/μg DNA (tested by pUC19 plasmid DNA).

Genotype

F mcrB mrr hsdS20(r_R, m_R) recA13 supE44 ara-14 galK2 lacY1 proA2 rpsL20 (Str^R) xyl-5 λ- leu mtl-1

Features

- Suitable for lentivirus and retrovirus vector plasmid vectors transformation.
- Reduced the frequency of homologous recombination of long terminal repeats.
- High transformation efficiency: >108 cfu/μg (pUC19 DNA).

Procedures

- Equilibrate a water bath to 42°C.
- Warm a vial of SOC medium or LB medium to room temperature. Warm selective plates at 37°C for 30 minutes.
- Thaw a vial of 100 μl of *Trans*Stbl3 Chemically Competent Cell on ice, aliquot 50 μl of the cells into a prechilled 1.5 ml tube, add target DNA (1 to 5 μl) into the tube. Do not mix by pipetting up and down. Incubate the cells on ice for 30 minutes.
- Heat-shock the cells for 45 seconds at 42°C without shaking. Immediately transfer the tube to ice. Incubate on ice for 2 minutes without shaking.
- Add 500 µl of prewarmed SOC medium or LB medium (without antibiotic) into the tube, mix well and shake at 37°C for 1 hour at 200 rpm for cell recovery and for the expression of antibiotic resistance.
- Spread 20 to 200 μl from each transformation vial on a prewarmed selective plate. The remaining can be stored at 2-8°C and plated the next day if needed.
- Invert the plate and incubate at 37°C overnight.
- Select colonies and analyze by restriction enzyme digestion, PCR, or sequencing.

Notes

- · Higher efficiency transformation can be achieved by transforming cells immediately following thawing.
- · Avoid repeated thawing.
- Gentle handling is required for the entire procedure.

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