*Trans*110 Chemically Competent Cell

Please read the manual carefully before use

Cat. No. CD311

Version No. Version 1.1

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

Description

*Trans*110 Chemically Competent Cell is specifically designed for chemical transformation of DNA. It permits a transformation efficiency of over 10^6 cfu/μg DNA (tested by pUC19 plasmid DNA).

Genotype

*rps*L (Str^R) *thr leu thi*-1 *lac*Y *gal*K *gal*T *ara ton*A *tsx dam dcm sup*E44 Δ(*lac-pro*AB) /F′ [*tra*D36 *pro*AB *lac*I^q *lac*ZΔM15]

Features

- Only suitable for transforming plasmid DNA.
- Unmethylated DNA due to dam$^-$/dcm$^-$.
- Str^R.

Procedures

- Thaw a vial of 100 μl of *Trans*110 Chemically Competent Cell on ice, aliquot 50 μl of the cells into a prechilled 1.5 ml tube, add target DNA into the tube. Mix gently. 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 sterile 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.
- Gently mix the transformation mixture. Evenly spread 100 μl of the transformed cells onto an LB agar plate with the appropriate antibiotic. Incubate the plates at 37°C until the liquid is absorbed. Invert the plates and incubate at 37°C overnight.

Notes

- Higher efficiency transformation can be achieved by transforming cells immediately following thawing.
- Avoid repeated thawing.
- Gentle handling is required for the entire procedure.
- Do not mix by pipetting up and down.

For research use only, not for clinical diagnosis.

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