

## Transformation & Storage Solution (2X TSS)

Cat. No. C905ML

Transformation & Storage Solution (2X TSS) enables researchers to take advantage of the simple system described by Chung *et al.*<sup>1</sup> for the preparation, long-term storage and transformation of competent *E. coli*. Early log-phase cells are suspended in 1X TSS: a solution containing polyethylene glycol, dimethyl sulfoxide, and divalent cations in a bacterial growth medium. The transforming DNA is added to the TSS-treated cells, the mixture is incubated on ice, and the transformed cells are plated on selective media. Transformation efficiencies of  $10^5$ - $10^6$  colonies/ $\mu$ g of DNA are routinely obtained without lengthy host cell preparation or heat shock.<sup>1,2</sup> For example, *E. coli* strains DH1, DH5 $\alpha$ , HB101, JM109, LE392, MM294, SCS-1, and XL-1 gave transformation efficiencies of  $1.5$ - $6 \times 10^7$  colonies/ $\mu$ g of DNA. Precise transformation efficiencies will depend on both the host strain and the nature and quality of the transforming DNA.

For added convenience, TSS-treated competent cells can be prepared in advance and stored at  $-70^\circ\text{C}$  for later use with little or no loss in transformation efficiency. For example, TSS-treated competent *E. coli* JM109 cells showed no significant loss of transformation efficiency after 1-18 weeks at  $-70^\circ\text{C}$ .<sup>1</sup> However, the transformation efficiency of TSS-treated *E. coli* K802 competent cells was reduced several-fold after similar treatment. Fresh TSS-treated competent cells should be used when the total number of recombinants, the ligation or transformation efficiency or the percentage of correct recombinants is expected to be low.

### Product Specifications

TSS is supplied as a 2X solution.

**Storage:** Store only at  $-20^\circ\text{C}$  in a freezer without a defrost cycle.

**Storage of Competent Cells in TSS:** Competent cells frozen in TSS should be stored at  $-70^\circ\text{C}$ .

### Preparation and Transformation of TSS-Competent Cells

#### Preparation of Competent Cells

1. Dilute an overnight culture of *E. coli* 1:50 with LB broth.
2. Incubate at  $37^\circ\text{C}$  with shaking (at 200 rpm) until the cells reach early log phase ( $\text{OD}_{600} = 0.25$ - $0.4$ ).
3. While cells are growing, thaw 2X TSS on ice and dilute an appropriate amount 1:1 with sterile distilled water (100  $\mu$ l of diluted TSS will be needed for each ml of cells). Chill on ice.

# Protocol For Transformation Storage Solution 2x Tss

**Kaori Shimazaki**



**Protocol For Transformation Storage Solution 2x Tss:**

## Whispering the Techniques of Language: An Psychological Journey through **Protocol For Transformation Storage Solution 2x Tss**

In a digitally-driven earth wherever monitors reign supreme and immediate communication drowns out the subtleties of language, the profound strategies and mental nuances concealed within words frequently get unheard. However, set within the pages of **Protocol For Transformation Storage Solution 2x Tss** a fascinating literary value blinking with organic emotions, lies a fantastic journey waiting to be undertaken. Penned by an experienced wordsmith, this wonderful opus invites visitors on an introspective trip, softly unraveling the veiled truths and profound influence resonating within ab muscles cloth of every word. Within the psychological depths of the touching review, we shall embark upon a sincere exploration of the book is core styles, dissect their interesting writing fashion, and fail to the powerful resonance it evokes heavy within the recesses of readers hearts.

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