Transformation and Storage Solution (TSS)

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Abstract

Recipe for TSS buffer. Buffer can be used for TSS transformation of non-competent *E. coli* cells.

Materials

✓ Polyethylene Glycol 3350 by Contributed by users
  Luria-Bertani (LB) broth, makes 1L K488 by [Amresco](#)
  dimethylsulfoxide (DMSO) by [Sigma Aldrich](#)

Protocol

Buffer ingredients

Step 1.

Chemical	Volume/Mass	Final Conc.
PEG 8000 or PEG 3350	20 g	20% (w/v)
DMSO	10 ml	10% (w/v)
$MgCl_2 * H_2O$	2.03 g	100 mM
LB Medium	add 100 ml (pH 6.5)	

🔋 REAGENTS
✓ Polyethylene Glycol 3350 by Contributed by users

Buffer preparation

Step 2.

Prepare 2x TSS without DMSO and autoclave.

Buffer preparation

Step 3.

Add sterile DMSO after autoclaving.

🔲 REAGENTS
dimethylsulfoxide (DMSO) by [Sigma Aldrich](#)

Step 4.

Divide in 10 ml aliquots and store at 4 °C