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The exact mechanisms involved in

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artificial competence are not yet known well. In CaCl<sub>2</sub> method, the competency can be obtained by creating pores in bacterial cells by suspending them in a solution containing a high concentration of calcium. DNA can then be forced into the Host cell by heat shock treatment at 42°C for the process of transformation

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Transformation Solution, 15 ml, is a sterile CaCl<sub>2</sub> solution for use with the pGLO™ Bacterial Transformation Kit (#166-0003EDU). This product is for education use only. Also available as part of the Transformation Reagent Refill Kit (#166-0555EDU). Transformation

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solution (CaCl<sub>2</sub>), sterile, 15 ml: 1:

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Calcium chloride (CaCl<sub>2</sub>) transformation is a laboratory technique in prokaryotic (bacterial) cell biology. It increases the ability of a prokaryotic cell to incorporate plasmid DNA allowing them

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to be genetically transformed. The addition of calcium chloride to a cell suspension promotes the binding of plasmid DNA to lipopolysaccharides (LPS). ). Positively charged calcium ions attract both ...

**Calcium chloride transformation - Wikipedia**



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Answers a transformation and storage solution [TSS; 1x TSS is LB broth containing 10% ... with CaCl<sub>2</sub> made the cells susceptible to uptake of bacteriophage DNA. .... of temperature as aContinue reading: What Is The Function Of The ...

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ice-cold CaCl<sub>2</sub> solution. 6. Centrifuge cells 5 min at 1100 × g (2500 rpm), 4°C. Discard supernatant and resuspend each pellet in 10 ml ice-cold CaCl<sub>2</sub> solution. Keep resuspended cells on ice for 30 min. 7. Centrifuge cells 5 min at 1100 × g, 4°C. Discard supernatant and resuspend each pellet in 2 ml ice-cold

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CaCl<sub>2</sub> solution. 8.

## **TRANSFORMATION USING CALCIUM CHLORIDE - 3**

250 $\mu$ l of transformation solution (CaCl<sub>2</sub>, 50 mM pH 5.5) is added to the transformation mix. 1) What is the equivalent weight of calcium? 2) What is the equivalent weight of Chlorine? 3)

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Calculate the number of calcium mEq (milliEquivalents) in the mix. 4) Calculate the number of Cl<sub>2</sub> equivalents in the mix.

### **250l of transformation solution (CaCl<sub>2</sub>, 50 mM pH 5.5) is ...**

For use by biotechnology students at the ScienceBridge tech sites when making

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calcium chloride solution for the ScienceBridge Transformation kits. Objective . This SOP sets the safety and procedural specifications for making a 50mM stock solution of calcium chloride. Materials 2L stock of 50mM CaCl<sub>2</sub> (makes ~165 kits) 1.

## **Making 50mM CaCl<sub>2</sub> solution -**



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## **ScienceBridgeTechSites**

Protocol Preparation and Transformation of Competent *E. coli* Using Calcium Chloride . Joseph Sambrook and; David W. Russell; Cold Spring Harb Protoc; 2006; doi: 10.1101/pdb.prot3932

## **Preparation and Transformation of Competent *E. coli* Using ...**

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Cells stored at -80 °C can be used for transformation for up to ~6 months  
NOTE: through the process, cells should be treated with care. No vortexing or excess pipetting should be performed, specially when the cells have been resuspended in CaCl<sub>2</sub> because lysis will result, decreasing the amount of competent cells).

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## **Preparation of competent E. coli cells using CaCl<sub>2</sub>**

what is the purpose of CaCl<sub>2</sub> treatment in ... It involves the exposure of growing bacterial cells to a hypotonic solution of ... DNA added to the transformation mixture forms a DNase ...

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**250l of transformation solution (CaCl<sub>2</sub>, 50 mM pH 5.5) is ...**

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heat-shock transformation Chang, Angela Y., Chau, Vivian WY., Landas, Julius A., Pang, Yvonne Department of Microbiology and Immunology, University of British Columbia Calcium chloride heat-shock transformation is a powerful molecular biology technique used to introduce foreign DNA into a host cell.

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## **Preparation of calcium competent Escherichia coli and heat ...**

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to be genetically transformed.  
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Solution Cacl2 Calcium chloride (CaCl2)

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transformation is a laboratory technique in prokaryotic (bacterial) cell biology. It increases the ability of a prokaryotic cell to incorporate plasmid DNA allowing them to be genetically transformed.

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Source(s): calcium chloride cacl<sub>2</sub>

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transformation bacteria:

<https://tinyurl.im/5vfrP>. 0 0.

kameron\_richardson. 1 decade ago.

After the cell wall of the bacteria is dissolved by the SDS, the Calcium chloride attaches to the pores of the bacteria and opens them up.

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