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*~~5-Heat Shock Transformation~~  
pGLO Transformation What is the molar mass of calcium chloride CaCl<sub>2</sub>? ~~Transformation Vs Transfection~~ Transformation Solution CaCl<sub>2</sub>*

*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 to be genetically transformed. The addition of calcium chloride to a cell suspension promotes the binding of*

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*plasmid DNA to lipopolysaccharides (LPS).*

*Calcium chloride transformation - Wikipedia*  
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*CaCl<sub>2</sub> Transformation Technique - MyBioSource Learning Center*  
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*using CaCl<sub>2</sub>, Heat Shock Transformation Calcium ions help the uptake of the Plasmid DNA (making it competent) Mixture of DNA and cells is heat shocked to allow entry of DNA into cells Cells are grown to allow synthesis of proteins encoded in Plasmid DNA Lab technique*

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*250µl of transformation solution (CaCl<sub>2</sub>, 50 mM pH*



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*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) Calculate the number of calcium mEq (milliEquivalents) in the mix. 4) Calculate the number of Cl<sub>2</sub> equivalents in the mix. "Get 15% discount [...]*

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*To get the DNA into the bacteria, we have to poke holes in them with the chemical calcium chloride (CaCl<sub>2</sub>). CaCl<sub>2</sub> will dissociate into Ca<sup>2+</sup> and 2 Cl<sup>-</sup>, and the positive charge of the Ca<sup>2+</sup> cancels...*

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*(stock solution, 10x working concentration) • Weigh out 11.1g of anhydrous CaCl<sub>2</sub> • Add to 80mL of dH<sub>2</sub>O • Mix solution until CaCl<sub>2</sub> is fully dissolved • Top up to 100mL • Filter sterilize through a 0.22µm pore 0.1M CaCl<sub>2</sub> (working solution) • Add 10mL of 1M CaCl<sub>2</sub> to 90mL of dH<sub>2</sub>O for a 1:10 dilution*

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