



## BABS UNSW iGEM Lab Protocol

Procedure	Name  Description		Preparation of pre-treating solution for lactococcus electrotransformation (100ml)  Use of this solution has been shown to significantly improve efficiency of transformation by Papagianni, et al (2007)					
Document	Name	Mackenzie	Labine-Romain	Date	8/07/15	Version	2	
Requirements	Time						•	
	PPE		Gloves, Labcoat					
	Equipment		Scales Magnetic Mixer 0.1 L Schott bottle					
	Materials		Tris-HCl 7.5 0.66g Lithium acetate 20.5 g Sucrose 0.7g DTT (dithiothreitol)					
Step 1		Add 0.66g lithium acetate and 20.5 g sucrose to Schott bottle and dissolve in 50ml water.						
Step 2	Mix with	Mix with the magnetic mixer until fully dissolved,						
Step 3		Prepare 1M DTT by dissolving 0.154g DTT in 1mL Milli-Q water in a microcentrifuge tube. Shake to mix.						
Step 4		Add 1ml DTT solution and 1ml of Tris-HCl to Schott bottle and mix. Add Milli-Q water up to 100mL.						
Step 5	Filter st	Filter sterilise in hood.						
Notes	efficienc	Adapted from: Papagianni, M., Avramidis, N., & Filioussis, G. (2007). High efficiency electrotransformation of Lactococcus lactis spp. lactis cells pretreated with lithium acetate and dithiothreitol. <i>BMC biotechnology</i> , 7(1), 15.						
Version History	Sucrose	Sucrose volume changed						
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