10/6/2019

08. (August) 2019

Project: iGEM_Munich2019 Shared Project

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Colony PCR (E16: AL with His-loop in CD63), according to Colony PCR protocol.

• colonies #1, 2, 9 were inoculated for MiniPrep

DNA Digest with DNAse/Dpn1 test

A-F: eppis in which 1-3 components should be added according to workflow below.

07082019_DNAse_Dpn1_DNA_digest_test								
	Α	В	С	D	Е	F		
1	100ul DMEM	100ul DMEM	100ul DMEM	100ul DMEM	100ul DMEM	100ul DMEM		
2	5ul DNA, 50ul OptiMem	5ul DNA, 50ul OptiMem	5ul DNA, 50ul OptiMem	56,8ul transfection mix	56,8ul transfection mix	56,8ul transfection mix		
3	50ul ddH2O	50ul DNAse reaction mix	50ul Dpn1 reaction mix	50ul ddH2O	50ul DNAse reaction mix	50ul Dpn1 reaction mix		

DNAse_reaction_mix						
	Α	В				
1	DNAse 1 Buffer	5ul				
2	DNAse 1	0.5ul				
3	DNA	5ul				
4	milliQ H2O	39.5ul				

Dpn1_reaction_mix					
	Α	В			
1	CutSmart Buffer	5ul			
2	Dpn 1	1ul			
3	DNA	5ul			
4	milliQ H2O	39ul			

Workflow

file:///tmp/tmp360mOn.html

- 1. Prepare Transfection Mix & OptiMem mix under the hood, incubate 15min
- 2. Prepare DNAse and Dpn1 reaction mixes (without enzymes) on the bench.
- 3. Add 100ul complete DMEM to each incubated eppi under the hood.
- 4. Add enzymes to previously prepared DNAse & Dpn1 reaction mixes and join eppi contents.
- 5. DNAse: incubate 10min on 37°C, to stop reaction add 1ul 0.5% EDTA and then incubate 10min on 75°C. Dpn1: 5-15min on 37°C.
- 6. Agarose gel electrophoresis (1.5%, 150V, 20min), according to protocol.