

eJB234_comp_sugar_conc_090721

MONDAY, 9/6/2021

Goal: after some promising results about the competition experiment, I want to make sure that everything is coherent. Based on our understanding, changing the sucrose concentration should lead to fitness changes.

Notes:

- 2 strains (John strains)
- 2 carbon sources (glucose/fructose and sucrose)
- 6 replicates
- 3 sugar concentrations (5, 10 and 20)

Strains:

Strains			^
	A	B	
1	yJB064	John ACE2 delete	
2	yJB069	John AMN1-RM11	
3	yJB077	John Single cell	

Protocol:

TUESDAY, 9/7/2021

- Start cultures as follow:

Inoculation				
	Tube #	Strain	Concentration	Sugar
1	1,2	yJB064	5 mM	Glucose/Fructose
2	3,4	yJB064	10 mM	Glucose/Fructose
3	5,6	yJB064	20 mM	Glucose/Fructose
4	7,8	yJB069	5 mM	Glucose/Fructose
5	9,10	yJB069	10 mM	Glucose/Fructose
6	11,12	yJB069	20 mM	Glucose/Fructose
7	13,14	yJB077	5 mM	Glucose/Fructose
8	15,16	yJB077	10 mM	Glucose/Fructose
9	17,18	yJB077	20 mM	Glucose/Fructose
10	19,20	yJB064	5 mM	Sucrose
11	21,22	yJB064	10 mM	Sucrose
12	23,24	yJB064	20 mM	Sucrose
13	25,26	yJB069	5 mM	Sucrose
14	27,28	yJB069	10 mM	Sucrose
15	29,30	yJB069	20 mM	Sucrose
16	31,32	yJB077	5 mM	Sucrose
17	33,34	yJB077	10 mM	Sucrose
18	35,36	yJB077	20 mM	Sucrose

WEDNESDAY, 9/8/2021

- Start the cultures as indicated in the excel sheet.