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Hydrophobicity Protocol

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1

Works for me

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ABSTRACT

P-Xylene Hydrophobicity Assay

Note that I have written this before doing it. Changes most likely will be made.

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ABSTRACT

P-Xylene Hydrophobicity Assay

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Steps

- 1 Grow 10mls OG1RF in BHI using short-term or long-term supplementation

- 2 At 0.3 OD for long-term or 30 minutes after supplementation for short-term, spin cells and wash twice using PUM buffer
- 3 Aliquot 1 ml 6 times into glass tubes and mix with a range of P-xylene volumes
 - 0µl, 12.5µl, 25µl, 50µl, 100µl, and 200µl p-xylene in 1ml PUM buffer
- 4 Vortex vigorously for 30 seconds or place in a shaker for 2 minutes (for many samples)
- 5 Incubate static at 37°C for 15 minutes
- 6 Carefully extract 200µl of the aqueous phase and add to 800µl PUM buffer in a cuvette
- 7 Record OD₆₀₀ for each P-xylene concentration
- 8 Present each sample as a percentage of cells in the aqueous phase relative to PUM buffer with no p-xylene
- 9
$$\text{OD}_{600\text{nm}} \text{ X } \mu\text{l p-xylene} / \text{OD}_{600\text{nm}} \text{ PUM only} = \% \text{ cells in aqueous phase}$$