



Oct 18, 2019

Fluorescence measurement

DOI

<https://dx.doi.org/10.17504/protocols.io.8f9htr6>

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Protocol Citation: iGEM Dusseldorf 2019. Fluorescence measurement. **protocols.io**

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Protocol status: Working

We use this protocol and it's working

Created: October 18, 2019



Last Modified: October 18, 2019

Protocol Integer ID: 28897

Keywords: fluorescence, measurement

Materials

LB-medium

antibiotic resistance

Tergitol

24 well plate

96 well plate



- 1 Prepare 5 ml LB medium with antibiotic resistance and 0.5% ml Tergitol
- 2 Inoculate one colony in the prepared LB medium
- 3 Add 0.01-1 mM of the desired fatty acid to the culture medium
- 4 Inoculate the culture for at least 16 hours at 37 °C
- 5 Measure the absorption with a photometer at a wavelength 600 nm
- 6 Dilute the culture to an OD₆₀₀ of 0.05 with LB medium
- 7 Fill a 24 well plate with 800 µl of 3 biological with 3 technical replicats respectively like shown in the table below

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	Sam ple 1.1	Sam ple 1.2	Sam ple 1.3	Sam ple 5.1	Sam ple 5.2	Sam ple 5.3
	Sam ple 2.1	Sam ple 2.2	Sam ple 2.3	Sam ple 6.1	Sam ple 6.2	Sam ple 6.3
	Sam ple 3.1	Sam ple 3.2	Sam ple 3.3	Sam ple 7.1	Sam ple 7.2	Sam ple 7.3
	Sam ple 4.1	Sam ple 4.2	Sam ple 4.3	Sam ple 8.1	Sam ple 8.2	Sam ple 8.3

- 9 Inoculate the 24 well plate at 37°C for at least 16 hours

10 Transfer the samples from the 24 well plate on a 96 well plate like shown in the table below

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	Sam ple 1.1	Sam ple 1.2	Sam pl e 1.3	Sam ple 2.1	Sam ple 2.2	Sam ple 2.3	Sam ple 3.1	Sam ple 3.2	Sam ple 3.3	Sam ple 4.1	Sam ple 4.2	Sam ple 4.3
	Sam ple 1.1	Sam ple 1.2	Sam pl e 1.3	Sam ple 2.1	Sam ple 2.2	Sam ple 2.3	Sam ple 3.1	Sam ple 3.2	Sam ple 3.3	Sam ple 4.1	Sam ple 4.2	Sam ple 4.3
	Sam ple 1.1	Sam ple 1.2	Sam pl e 1.3	Sam ple 2.1	Sam ple 2.2	Sam ple 2.3	Sam ple 3.1	Sam ple 3.2	Sam ple 3.3	Sam ple 4.1	Sam ple 4.2	Sam ple 4.3
	Blan k	Blan k	Blan k	Blan k	Blan k	Blan k	Blan k	Blan k	Blan k	Blan k	Blan k	Blan k
	Sam ple 5.1	Sam ple 5.2	Sam pl e 5.3	Sam ple 6.1	Sam ple 6.2	Sam ple 6.3	Sam ple 7.1	Sam ple 7.2	Sam ple 7.3	Sam ple 8.1	Sam ple 8.2	Sam ple 8.3
	Sam ple 5.1	Sam ple 5.2	Sam pl e 5.3	Sam ple 6.1	Sam ple 6.2	Sam ple 6.3	Sam ple 7.1	Sam ple 7.2	Sam ple 7.3	Sam ple 8.1	Sam ple 8.2	Sam ple 8.3
	Sam ple 5.1	Sam ple 5.2	Sam pl e 5.3	Sam ple 6.1	Sam ple 6.2	Sam ple 6.3	Sam ple 7.1	Sam ple 7.2	Sam ple 7.3	Sam ple 8.1	Sam ple 8.2	Sam ple 8.3
	Blan k	Blan k	Blan k	Blan k	Blan k	Blan k	Blan k	Blan k	Blan k	Blan k	Blan k	Blan k

12 Measure the desired fluorescence at the appropriate wavelength and the OD₆₀₀ with a plate reader