

Minifors - E.coli

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Abstract

Citation: rainer machne Minifors - E.coli. [protocols.io](https://doi.org/10.17504/protocols.io.g4dbys6)

[dx.doi.org/10.17504/protocols.io.g4dbys6](https://doi.org/10.17504/protocols.io.g4dbys6)

Published: 01 Feb 2017

Protocol

Rinse all reactor parts 3x with DI H2O

Step 1.

Calibrate pH probe with pH7, pH4 and pH9 solutions

Step 2.

Assemble reactor, fill with 1.5 L 1x M9 salts and 0.5 mL antifoam 204; attach DO and pH probes, close all openings as instructed in the manual (, autoclave, 15" at 120C

Step 3.

Inoculate overnight culture at 37C

Step 4.

Mix carbon source and, MgSO4 and CaCl2 to required concentration and inject through 0.22 uM filter through inoculation port.

Step 5.

Attach offgas line to `gas'o'meter' device.

Step 6.

Start protocol in Iris software; calibrate DO probe by N2 flush; check calibration of `gas'o'meter

Step 7.

Measure OD of pre-culture and inject through inoculation port; start "incolution" protocol in Iris.

Step 8.

Take samples for OD and fluorescence measurement in plate-reader; dry-weight measurement and cell-co

Step 9.