Manual dissection of the Schistosoma mansoni head and back end for transcriptomic analysis

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Working

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ABSTRACT

M2 medium for co-culturing Cyanobacteria, such as *S. elongtatus*, together with heterotrophic bacteria

Slighly modified from:
Weiss, Taylor L., Eric J. Young, and Daniel C. Ducat. "A synthetic, light-driven consortium of cyanobacteria and heterotrophic bacteria enables stable polyhydroxybutyrate production." *Metabolic engineering* 44 (2017): 236-245.

PROTOCOL STATUS

Working

We use this protocol in our group and it is working

Important information

1 Always work under sterile conditions.
Recipe for 1L 1x M2 medium

Trace metal mix

2 1000x concentration:

- H_3BO_3 (2.86 g · L^{-1})
- $MnCl_2 \cdot 4\ H_2O$ (1.81 g · L^{-1})
- $ZnSO_4 \cdot 7\ H_2O$ (0.222 g · L^{-1})
- $Na_2MoO_4 \cdot 2\ H_2O$ (0.390 g · L^{-1})
- $Co(NO_3)_2 \cdot 6\ H_2O$ (0.049 g · L^{-1})

Ingredients

3 Add 10 ml 100x M2 (https://www.protocols.io/view/100x-m2-medium-uqnevve)

4 Add 10 ml 100x K2HPO4 (82g/l)

5 Add 1 ml 1000x trace metals

6 Add 1 ml 1000x Na_2CO_3(20 mg · L^{-1})

7 Add 1 g HEPES

8 Fill up to 1 l with MilliQ-water

9 The medium has to be autoclaved afterwards

After autoclaving

10 Add 1ml of 1000x Fe(III) ammonium citrate (6 mg · L^{-1})

11 Add 200 µl of 5000x $CuSO_4 \cdot 5\ H_2O$ (395 ng · mL^{-1})