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OPEN ACCESS

External link:
http://www.wormbook.org/chapters/www_strainmaintain/strainmaintain.html

Protocol Citation: Adrien Assie, Buck Samuel 2024. S-Complete Medium. **protocols.io** https://protocols.io/view/s-complete-medium-zzaf72e

MANUSCRIPT CITATION: Lewis, J.A. and Fleming, J.T. (1995). In: Methods in cell biology, Vol. 48, H.F. Epstein and D.C. Shakes, eds. (San Diego: Academic Press), p. 3.

Protocol status: Working

S-Complete Medium

In 1 collection

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DISCLAIMER

We are not the author of this protocol. It was first described in Lewis and Fleming (1995). Protocol inspired from the one available on the Wormbook website.

ABSTRACT

Large quantities of *C. elegans* can be grown in a liquid medium. Liquid cultures of *C. elegans* are usually grown on S Medium using concentrated *E. coli*OP50 as a food source. This is the S-Complete medium recipe.

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Keywords: C. elegans, Liquid culture, S medium

1 977 mL of S-Basal medium (Link below)

Protocol

NAME

S-Basal Medium

CREATED BY

Adrien Assie

PREVIEW

1.1 Start with 700 mL water

1.2 5.9 g NaCl ([M] 100 millimolar (mM))

1.3 50 mL of [M] 1 Molarity (M) Potassium Phosphate Buffer, pH 6.0

OR

1 g K2 HPO4 and 6 g KH2PO4

1.4 Adjust water to 1000 mL

1.5 Autoclave

2 1 mL of 5 mg/ mL cholesterol (dissolved in Et-OH)

3 10 mL of [M] 1 Molarity (M) Potassium Citrate Buffer, pH 6.0

4 10 mL of Trace metals solution (sterile)

Protocol

NAME

Trace Metals Solution

CREATED BY

Adrien Assie

PREVIEW

4.1 Start with 700 mL water

4.2 10 mL of *500 mM EDTA, pH 8.0 or 1.86 g Na2EDTA.2H2O (5 mM)

4.3 0.69 g $FeSO_4 \cdot 7H_2O$ (2.5 mM)

4.4 0.20 g $MnCl_2 \cdot 4H_2O$ (1 mM)

4.5 0.29 g $ZnSO_4 \cdot 7H_2O$ (1 mM)

4.6 0.016 g $CuSO_4$ (0.1 mM)

4.7 Adjust to 1000 mL water

4.8 Autoclave and store in the dark

5 3 mL of [M] 1 Molarity (M) $CaCl_2$ (sterile)

6 3 mL of [M] 1 Molarity (M) $MgSO_4$ (sterile)