

Materials List for:

Using RNA-mediated Interference Feeding Strategy to Screen for Genes Involved in Body Size Regulation in the Nematode *C. elegans*

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Materials

RNAi worm plates

17.7 g Worm Medium Mix

60 g Agar

Add H₂O to 3 liters. Autoclave.

Add 3 ml 1M IPTG(sterile) and 3 ml 25 mg/ml Carbenicillin(sterile); then pour into 60 mm Petri dishes.

Worm plates

17.7 g Worm Medium Mix

0.6 g Streptomycin Sulfate

60 g Agar

Add H₂O to 3 liters. Autoclave. Pour into 60 mm Petri dishes.

Worm Medium Mix

55 g Tris-Cl

24 g Tris-OH

310 g Bacto Peptone

800 mg Cholesterol

200 g NaCl

Mix thoroughly and be sure to avoid chunks; this powdered mixture can be stored for many months prior to use.

2% agarose

0.5 g Agarose

Add 25 ml dH₂O. Heat in microwave until dissolved.

1M Isopropyl β-D-1-thiogalactopyranoside (IPTG)

2 g IPTG

Dissolve in 10 ml dH₂O

1M NaN₃

6.5 g NaN₃

Add dH₂O to 100 ml

25 mM NaN₃

2.5 ml 1M NaN₃

Add dH₂O to 100 ml

Caenorhabditis elegans from Caenorhabditis Genetics Center

L4440 plasmid (carries ampicillin-resistance gene)

Bacteria strain HT115 (DE3) (contains IPTG inducible T7 polymerase; deficient for RNase III gene (a dsRNase) which also carries tetracycline-resistance gene)¹⁶

60 mm Petri dishes

100 mm Petri dishes

14 ml round-bottom Falcon culture tubes

glass slides

glass coverslips

1-20 μl pipettor

20-200 μl pipettor

200-1000 μl pipettor

1-200 μl pipet tips

200-1000 μl pipet tips

1.5 ml Eppendorf tubes

platinum wire worm pick