Pseudoalteromonas Media Recipes

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Abstract

Now includes media used for phosphate limitation experiments.

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Guidelines

All media should be autoclaved unless otherwise noted

Zobell plates, 100% nutrient (1 L) – for growing host; ~15 mL/plate

26 g sea salts

1 g yeast extract

5 g proteose peptone

fill to 1 L qH_2O

12 g agar

Zobell plates, 20% nutrient (1 L) – for plaque assays; ~10 mL/plate

26 g sea salts

0.2 g yeast extract

1 g proteose peptone

fill to 1 L qH_2O

12 g agar

PZM ("*Psuedoaleromonas* Zobell Media"; 50% nutrient Zobell) (1 L) – culture media

26 g sea salts

0.5 g yeast extract

2.5 g proteose peptone

fill to 1 L qH_2O

PZM top agar (1 L) – for plaque assays

26 g sea salts

0.5 g yeast extract

2.5 g proteose peptone

fill to 1 L qH_2O

6 g agarose

MSM (1 L) – phage buffer

100 mM NaCl (5.8 g)

81.2 mM $MgSO_4x7H_2O$ (20 g)

50 mM Tris base (3.02 g) **OR** 50 mL 1 M Tris (pH 7.6)

fill to 1 L qH_2O

adjust to pH 7–8 if necessary

Artificial seawater, 26 psu (ASW; 1 L) – dilution buffer

26 g sea salts

fill to 1 L qH_2O

Glucose, 222 mM (1 L)

40 g Glucose

fill to 1 L qH_2O

adjust to pH 7–8 if necessary

Ammonium Sulfate, 166 mM (1 L)

22 g $(NH_4)_2SO_4$

fill to 1 L qH_2O

adjust to pH 7–8 if necessary

Phosphoric Acid, 31 mM (1 L)

5.4 g K_2HPO_4

fill to 1 L qH_2O

adjust to pH 7–8 if necessary

1%Z+CNP (+P culture media; 1 L)

26 g sea salts **OR** use ASW instead of qH_2O

20 mL PZM

50 mL ammonium sulfate (166 mM; final 8.3 mM)

5 mL phosphoric acid (31 mM; final 0.15 mM)

fill to 1 L qH_2O **OR** ASW

adjust to pH 7–8 if necessary

autoclave, cool to 60 °C

50 mL glucose (222 mM; final 11 mM)

1%Z+CN (-P culture media; 1 L)

26 g sea salts **OR** use ASW instead of qH_2O

20 mL PZM

50 mL ammonium sulfate (166 mM; final 8.3 mM)

fill to 1 L qH_2O **OR** ASW

adjust to pH 7–8 if necessary

autoclave, cool to 60 °C

50 mL glucose (222 mM; final 11 mM)

Protocol

Step 1.