YES Rich Medium

Alan J. Cone

Abstract

Similar to YPD Medium for budding yeast, YES Medium is the rich growth medium utilized for fission yeast.

Citation: Alan J. Cone YES Rich Medium. **protocols.io**
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Materials

- Yeast Extract Y1625 by Contributed by users
- Adenine A8626 by Contributed by users
- Uracil U0750 by Contributed by users
- L-Histidine monohydrochloride monohydrate H8125 by Contributed by users
- L-Leucine L8000 by Contributed by users
- L-Lysine L5626 by Contributed by users
- L-Arginine A5006 by Contributed by users

Difco Bacto Agar 156783B by Carolina

Protocol

Mixing

Step 1.

Add 5.0 g Yeast Extract to a 1 Liter Erlenmeyer Flask.

AMOUNT

5 g Additional info:

REAGENTS

- Yeast Extract Y1625 by Contributed by users

Mixing

Step 2.

Add 30 g Glucose or Dextrose to the flask.

AMOUNT

30 g Additional info:

REAGENTS

- Glucose Glucose by P212121

Mixing

Step 3.

Add 0.25 g Adenine to the flask.

AMOUNT

0 g Additional info:

REAGENTS

- Adenine A8626 by Contributed by users

Mixing

Step 4.

Add 0.25 g Uracil to the flask.

AMOUNT

0 g Additional info:

REAGENTS

- Uracil U0750 by Contributed by users

Mixing

Step 5.

Add 0.25 g Histidine to the flask.

AMOUNT

0 g Additional info:

REAGENTS

- L-Histidine monohydrochloride monohydrate H8125 by Contributed by users

Mixing

Step 6.

Add 0.25 Leucine to the flask.

AMOUNT

0 g Additional info:

REAGENTS

- L-Leucine L8000 by Contributed by users

Mixing

Step 7.

Add 0.25 g Lysine to the flask.

AMOUNT

0 g Additional info:

REAGENTS

- L-Lysine L5626 by Contributed by users

Mixing

Step 8.

Add 1 g Arginine to the flask.

AMOUNT

1 g Additional info:

REAGENTS

- L-Arginine A5006 by Contributed by users

Mixing

Step 9.

Optional: For solid medium add 20 g Difco Bacto Agar to the flask.

AMOUNT

20 g Additional info:

REAGENTS

Difco Bacto Agar 156783B by Carolina

Mixing

Step 10.

Fill the flask with water up to the 1 Liter mark on the flask.

AMOUNT

1 L Additional info:

ANNOTATIONS

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Make sure the water you use is of a fairly neutral pH. Water in labs is often at pH 5, so be careful to check and adjust to ensure the medium is a viable environment.

Mixing

Step 11.

Place a magnetic stir bar into the flask and place the flask on a magnetic stirrer to dissolve the powder into the water.

DURATION

00:10:00

Mixing

Step 12.

Remove the stir bar with a magnetic rod.

Autoclaving

Step 13.

Place aluminum foil over the top of the flask and then autoclave on a liquid cycle for 20 minutes.

DURATION

01:00:00

Autoclaving

Step 14.

If solid medium, pour while still hot into plates and let them sit out to cool overnight on the lab bench.

If liquid medium, aliquot into smaller amounts and store at + 4 C.

NOTES

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Solid medium must be poured while still hot, otherwise it can solidify inside the flask.

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Storing liquid medium in small aliquots helps prevent against widespread contamination through normal use.

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After solid medium-filled plates cool, store inverted at +4 C.