Edinburgh Minimal Medium

Alan Cone

Abstract

Minimal growth medium for fission yeast. Very useful when performing transformations and needing to create dropout media. This protocol creates medium that yeast can grow on natively. To create dropout medium, simply omit whichever amino acid you are using as a marker.

Citation: Alan Cone Edinburgh Minimal Medium. **protocols.io**
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Materials

- 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
- Edinburgh minimal medium (EMM) 2005-250 by Contributed by users

Protocol

Mixing

Step 1.
Add 32.0 g EMM to a 1 Liter Erlenmeyer Flask.

AMOUNT
32 g Additional info:

REAGENTS
- Edinburgh minimal medium (EMM) 2005-250 by Contributed by users

Mixing

Step 2.
Add 0.25 g Adenine to the flask.

AMOUNT
0 g Additional info:

REAGENTS
- Adenine A8626 by Contributed by users

Mixing

Step 3.
Add 0.25 g Uracil to the flask.

AMOUNT
0 g Additional info:

REAGENTS
Uracil U0750 by Contributed by users

Mixing

Step 4.
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 5.
Add 0.25 Leucine to the flask.

AMOUNT
0 g Additional info:

REAGENTS
L-Leucine L8000 by Contributed by users

Mixing

Step 6.
Add 0.25 g Lysine to the flask.

AMOUNT
0 g Additional info:

REAGENTS
L-Lysine L5626 by Contributed by users

Mixing

Step 7.
Add 1 g Arginine to the flask.

AMOUNT
1 g Additional info:

REAGENTS
L-Arginine A5006 by Contributed by users

Mixing

Step 8.
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 9.
Fill the flask with water up to the 1 Liter mark on the flask.

AMOUNT

1 L Additional info:

NOTES

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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 10.

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 11.

Remove the stir bar with a magnetic rod.

Autoclaving

Step 12.

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 13.

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.