

FOA Plates

Make 1L of FOA plates

Prepare Agar and H₂O in one bottle for autoclave. Prepare FOA solution in another bottle to be filtered, not autoclaved. Will combine them both later.

Agar

500mL dI H₂O
20g Agar

Use 1L bottle. Stir agar in H₂O till all lumps are gone.
Autoclave.

FOA Soln, make 500mL

1g FOA, or 5-Fluorotic Acid (US Bio F5050)
5g Ammonium Sulfate (NH₄)₂SO₄ (Fisher A702-3)
1.7g Yeast Nitrogen Base w/o (NH₄)₂SO₄ or AA (US Bio Y2030)
1.37g Sc-ura dropout powder (homemade)
6mL URA (100x) (2mg/mL stock, 12mg/L final)
100mL Sugar (10x)
QS dI H₂O
--500mL total

Gently heat all ingredients till dissolved.
QS to 500mL with H₂O.
Filter
Leave in 50degree water bath till agar is ready.

Stir agar after autoclave.

Slowly pour FOA Soln. into agar bottle when it has cooled slightly. To reduce bubbles, pour the FOA Soln like you pour a beer, so it runs down the inside wall of the bottle.

Stir till thoroughly mixed.

Pour plates.

Dropout FOA plates

To make dropout plates, substitute SC-ura dropout powder for appropriate powder which is also missing ura. For FOA-trp, use SC-ut powder.