

Protocol for 5-Fluoroorotic Acid Media

Powder Form

1. Make 400 mL of standard yeast synthetic media (see below for details) and add 1 g of [5-Fluoroorotic acid \(GoldBio Catalog # F-230\)](#) in powder form and sterilize by filtration. 5-Fluoroorotic acid powder can also be added after autoclaving once media has cooled to 55°C.
2. Autoclave agar/water (concentration 20g/600 mL) and allow to cool to 55°C.
3. Add the cooled 5-Fluoroorotic acid media to the agar/water, mix, and pour plates.

In 100X 5- FOA solution

1. Dissolve 100 mg of [5-Fluoroorotic acid \(GoldBio Catalog # F-230\)](#) in 1 mL of DMSO for a final concentration of 100 mg/mL.
2. Make standard yeast synthetic agar containing media using a preferred method. Autoclave to sterilize.
3. Let cool to 55°C and add amino acids, sugars, or other heat sensitive components.
4. Add 10 mL of 100X 5-Fluoroorotic acid solution per liter, mix, and pour plates.

Czapek's Solution Agar

This is a synthetic medium commonly used in mycological laboratories.

Ingredients

Sucrose	30.0 g
NaNO ₃	3.0 g
K ₂ HPO ₄	1.0 g
MgSO ₄ · 7H ₂ O	0.5 g
KCl	0.5 g
FeSO ₄ · 7H ₂ O	0.01 g
Agar	15 g
Molecular biology grade water	1000 ml