

Recipe for an RNAlater-like buffer solution:

For 1.5 liters:

935 ml of autoclaved, MilliQ water

700 g Ammonium sulfate

Stir until dissolved

Add 25 ml of 1 M Sodium Citrate

And 40 ml of 0.5 M EDTA

Adjust to pH 5.2 using concentrated H₂SO₄ (about 20 drops= 1 ml)

Store at RT

15 liters:

7000 g Ammonium sulfate

9.35 liters of water (autoclaved in 20 liter carboy)

250 ml of 1 M Sodium citrate

400 ml of 0.5 M EDTA

~10 ml of concentrated H₂SO₄

For 60 liters (3 20 L carboys):

37.4 liters of water (~12.5 L per 20 L carboy)

28 kg Ammonium sulfate (9.3 kg per 20 L carboy)

1 liter sodium citrate (333 ml per 20 L carboy)

1.6 liter 0.5 M EDTA (533 ml per 20 L carboy)

~40 ml of concentrated H₂SO₄ (~13.3 ml per 20 L carboy) to pH 5.2 (use pH paper to check)