

1. Composition of the 3,5-dinitrosalicylic acid (DNSA) reagent

To prepare 100 ml of DNSA reagent, we weighed out the following quantities:

- 1 g of DNSA dissolved in 20 ml of soda to obtain a 2 N solution.**
- 30 g of sodium potassium tartrate dissolved in 50 ml of distilled water.**
- Make up to 100 ml with distilled water and stir until a homogeneous orange-red solution is obtained (if necessary, heat the mixture slightly).**
- Store this DNSA reagent in a tightly closed bottle away from light.**

2. Preparation of the acetoacetic buffer

To prepare the 0.1M acetoacetic buffer (pH 4.6), used as a solvent for invertase and its substrate (sucrose), the following solutions must be prepared:

- Solution "A" of 0.2 M acetic acid: 11.55 ml of CH₃COOH diluted in 1000 ml of distilled water.**
- Solution "A" of 0.2 M acetic acid: 11.55 ml of CH₃COOH diluted in 1000 ml of distilled water.**
- Solution "B" of 0.2M sodium acetate: 27.2g C₂H₃O₂Na.3H₂O dissolved in 1000 ml of distilled water.**
- Mix 25.5 ml of solution "A" and 24.5 ml of solution "B," then add distilled water to make up to 200 ml**

to obtain a 0.1 M buffer solution with a pH of 4.6.

3. Preparation of the sucrose solution 0.3 M