

Strong ammonium acetate solution

Aim: To prepare and dispense 30ml of strong ammonium acetate solution.

Requirements: Glacial acetic acid, ammonium bicarbonate, ammonium solution strong, purified water, beaker, glass rod, measuring cylinder.

Principle: Strong ammonium acetate solution was prepared by chemical reaction method. It is used as a mild expectorant, diaphoretic and diuretic. In this solution strong ammonia is used to neutralize the excess glacial acetic acid and obtain a condition of neutrality. To avoid the incompatibility of ammonium acetate and lead. It forms lead acetate which may turn to a turbid solution. So the solution is filled in a lead free glass bottle.

Procedure:

1. Mix glacial acetic acid, ammonium bicarbonate, 10ml of purified water.
2. Strong ammonia is added to the above solution (Ammonia is added to obtain a condition of complete neutralization, pH approximately between 7-8).
3. Dilute the preparation with purified water to produce the desired volume.
4. Fill the solution in a lead free glass bottle and label it.

Label:

Use: Mild expectorant, diaphoretic and diuretic.

Storage: Stored in a lead free glass bottle, in a cool place .

Dose: 1-5ml

Report:

S.no	Ingredients	Official quantity	Required quantity
1.	Glacial acetic acid	453gm	
2.	Ammonium bicarbonate	470gm	
3.	Ammonium solution (strong)	100ml	
4	Purified water	1000ml	

Label:

Strong ammonium acetate	
Name:	Sex:
Age:	Ref no:
Date of dispensing:	
FOR INTERNAL USE ONLY	
Use: Mild expectorant.	
Storage: Stored in a closed container	
Dose: 1-5ml	
Prescribed by:	
Dispensed by:	
Address of pharmacy: VNIPS	