

Effervescent Granules of Sodium Phosphate(U.S.P)

Aim: To prepare and dispense 5g of effervescent granules of sodium phosphate.

Requirements: Sodium phosphate, sodium bicarbonate, tartaric acid, china dish, spatula.

Principle: Effervescent preparation provides effervescence of CO_2 gas when added to water by a chemical reaction between alkali metal carbonates or bicarbonates with tartaric acid or citric acid. This preparation is intended to be dissolved in water before it is being taken orally. The CO_2 gas is released as a result of acid-base reaction. The preparation is advised to be taken while effervescence.

Procedure:

1. Citric acid is mixed with sodium phosphate and tartaric acid.
2. Add sodium bicarbonate to the above mixture and mix it gently.
3. The final powdered mixture is placed in a china dish previously heated on water bath.
4. Stir the mixture with the help of a spatula constantly till it becomes damp mass.
5. Pass damp mass through sieve number 8.
6. Dry granules at a room temperature not exceeding 54°C .
7. Pass dry granules through appropriate sieve.
8. Pack dry uniform sized granules in a wide mouthed bottle.

Label:

Dose: Each 5g contains sodium phosphate 1g.

Storage: Stored in air tight container in a cool place,

Use: Saline purgative and mild diuretic.

Report:

S.no	Ingredients	Official quantity	Required quantity
1.	Sodium phosphate	0.9g	
2.	Sodium bicarbonate	2.1g	
3.	Tartaric acid	1.1g	
4	Citric acid	0.7g	

Effervescent granules	
NAME:	SEX:
AGE:	REF NO:
DATE OF DISPENSING:	
FOR INTERNAL USE ONLY	
Dose : Each dose contains 5g of sodium phosphate	
USE: saline purgative & mild diuretic	
STORAGE: keep in air tight container	
PRESCRIBED BY:	
DISPENSED BY:	
ADDRES OF PHARMACY: VNIPS	