

Exp. No.-14

Date:

Aim: To prepare and submit 10gm of Effervescent granules.

Reference:

- ✓ Mehta R.M., Dispensing Pharmacy, Vallabh Prakashan, New Delhi, 2017; 127
- ✓ Subrahmanyam C.V.S., Thimmasetty. J, Prabhushankar G.L., Laboratory manual of Pharmaceutics. Vallabh Publication, Delhi, 2019; 88

Requirements:

Apparatus Required:

Mortar & pestle, weigh balance sieve shaker, China dish etc.

Chemical Required:

Sodium phosphate, sodium bicarbonate, tartaric acid.

Principle:

Effervescent preparation provides effervescence of CO₂ 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 CO₂ gas is released as a result of acid-base reaction. The preparation is advised to be taken while effervescence.

Formula:

Sl. No.	Ingredients	Official formula	Working formula	Required quantities
1	Sodium phosphate	0.9gm		
2	Sodium bicarbonate	2.1gm		
3	Tartaric acid	1.1gm		
4	Citric acid	0.7gm		10gm

Calculation:

Procedure:

- ✓ Citric acid is mixed with sodium phosphate and tartaric acid.
- ✓ Add sodium bicarbonate to the above mixture and mix it gently.
- ✓ The final powdered mixture is placed in a China dish previously heated on water bath.
- ✓ Stir the mixture with the help of a spatula constantly still it becomes damp mass.
- ✓ Pass damp mass through sieve number 8.
- ✓ Dry granules at a room temperature not exceeding 54⁰C.
- ✓ Pass dry granules through appropriate sieve.
- ✓ Pack dry uniform sized granules in a wide mouthed bottle.

Dose: Each 5g contains sodium phosphate 1g.

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

Use: Saline purgative and mild diuretic.

Label:

EFFERVESCENT GRANULES		
10gm		
Composition: Sodium phosphate Sodium bicarbonate Tartaric acid Citric acid	BATCH NO.	MFG. DATE:
	MFG. LIC. NO.:	EXPIRY DATE:
Category: Saline purgative and Mild diuretic		
FOR INTERNAL USE ONLY.		
Use: Saline purgative and Mild diuretic		
Storage: Stored in a well closed air tight container in a cool place and temperature not exceeding 25°C		
MFG BY: ABCD	Batch:	Roll No.:

Report: