

**LABEL:**

<b>EFFERVESCENT GRANULES BPC</b>		
<b>50 gm</b>		
<b>Composition:</b>	<b>BATCH NO.</b>	<b>MFG. DATE:</b>
Sodium phosphate :		
Sodium bicarbonate :		
Tartaric acid :		
Citric acid :	<b>MFG. LIC. NO.:</b>	<b>EXPIRY DATE:</b>
<b>Category:</b> Saline purgative		
<b>FOR INTERNAL USE ONLY</b>		
<b>Use:</b> Saline purgative and Mild diuretic		
<b>Storage:</b> Stored in a well closed air tight container in a cool place and temperature not exceeding 25°C		
<b>MFG BY:</b>	<b>Batch:</b>	<b>Roll No.</b>

**Calculation:**

## Experiment - 14

**Aim:** To prepare and submit 50 gm of Effervescent granules (BPC).

**Reference:**.....

**Requirements:**

**Apparatus Required:**

- Mortar & pestle
- China dish
- Weigh balance
- Spatula
- Sieve shaker
- Butter paper

**Chemical Required:**

- Sodium phosphate, sodium bicarbonate, tartaric acid & citric acid.

**Principle:**

Effervescent preparation provides effervescence of CO<sub>2</sub> 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<sub>2</sub> gas is released as a result of acid-base reaction. The preparation is advised to be taken while effervescence.

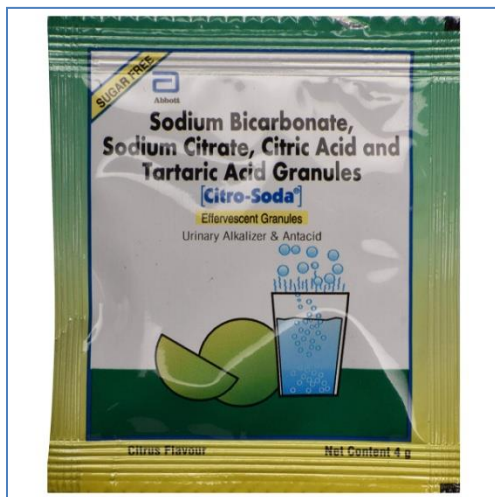
**Effervescent granules BPC Formulation:**

S. No.	Ingredients	Official formula	Required quantities (50 gm)	Uses
1.	Sodium phosphate	0.9 gm		
2.	Sodium bicarbonate	2.1 gm		
3.	Tartaric acid	1.1 gm		
4.	Citric acid	0.7 gm		

**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 till it becomes damp mass.
- ❖ Pass damp mass through sieve number 8.
- ❖ Dry granules at a room temperature not exceeding 54°C.
- ❖ Pass dry granules through appropriate sieve.
- ❖ Pack dry uniform sized granules in a wide mouthed bottle.

Marketed Formulation:



**Category:** Saline purgative

**Use:** Saline purgative and mild diuretic.

**Storage:** It should be store in a well closed container and keep in a cool place.

**Report:** I have prepared the .....gm Effervescent granules according to BPC and dispense in neat and clean container with proper labeling.

### Questions Bank

1. What are the Effervescent granules?
2. What is the Saline purgative?
3. What is the role of citric acid and tartaric acid in effervescent granules?
4. What is the mild diuretic?
5. What is the Antacids?
6. What is the Carminative?
7. What is the Laxative?
8. What is the use of sodium phosphate?
9. What is the use of sodium bicarbonate in the preparation of effervescent granules?
10. What is the common name of sodium bicarbonate?