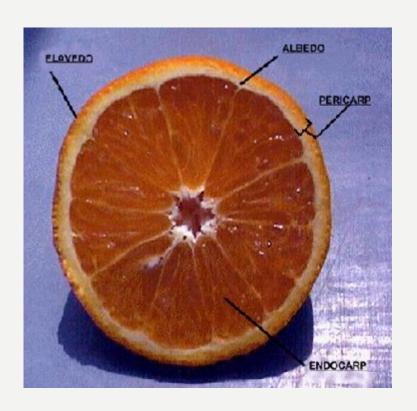
CITRIC ACID EXTRACTION

CITRIC ACID EXTRACTION FROM LEMON

CITRIC ACID

Citric acid is a one of the products occured by fermentation. It is produced by Aspergillus niger from glucose and sucrose in molasses.



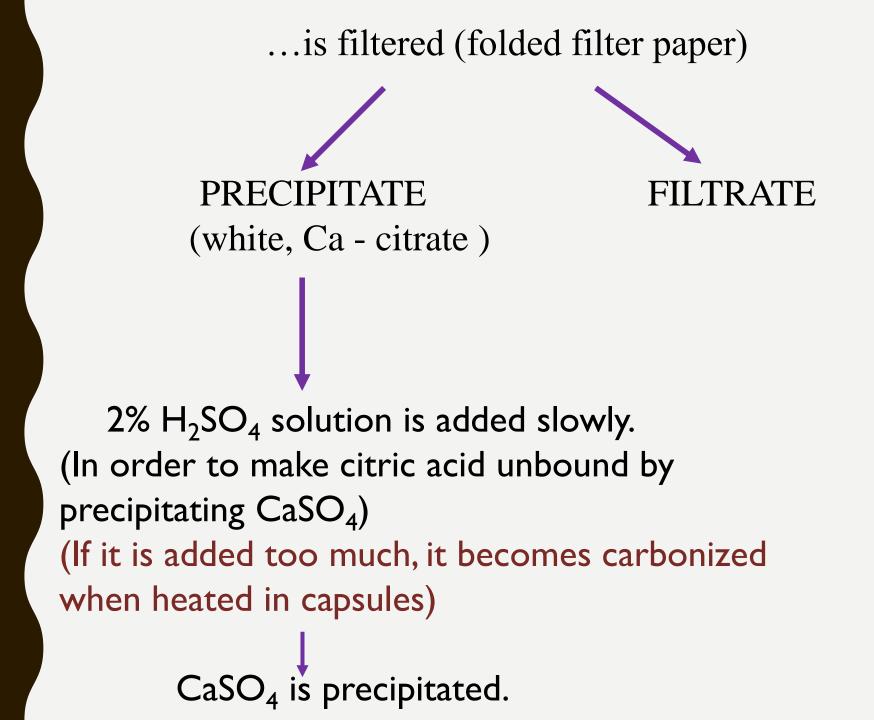
EXPERIMENTAL PROCEDURE:

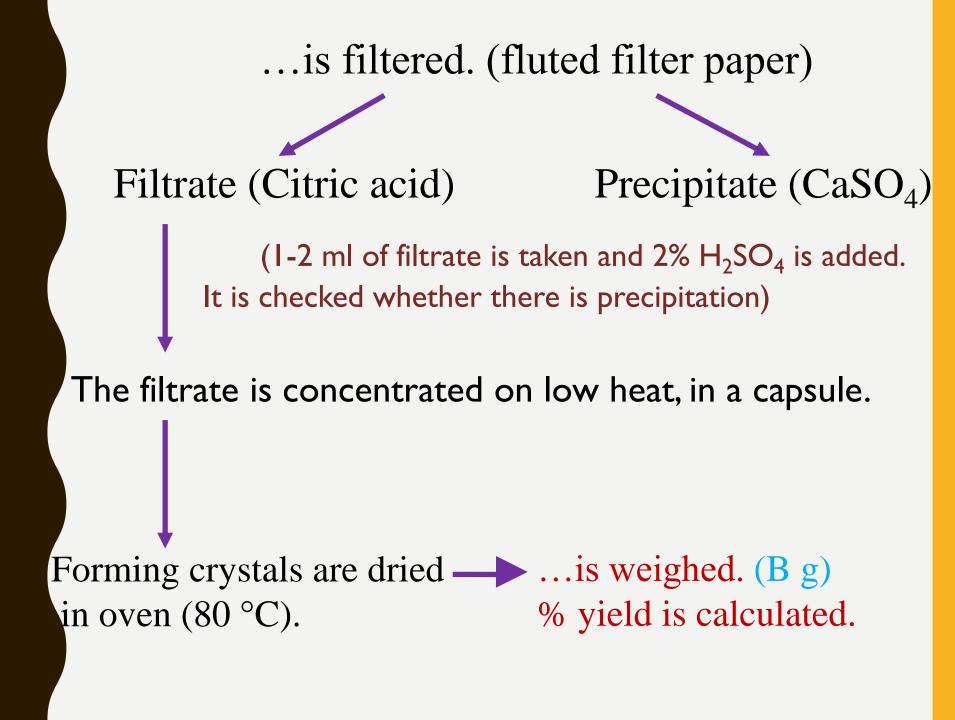
Lemons are divided into 2 pieces, squeezed then measured in a graduated cylinder. (A ml)

20 ml of lemon juice is diluted with equal volume water.

10% NaOH solution is added slowly (to neutralize medium) and controlled with turnusole.

Mixture is filtered using cotton and put into a beaker. CaCl₂ solution is added until white precipitate (Ca-citrate) occurs then, boiled on the burner for 1-2 minutes.





Yield calculation:

A ml lemon juice B g crystal (citric acid)

100 ml X g

Yield: % X g/ml