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Diploma in Pharmacy 1st Year

Pharmaceutical Chemistry

Experiment

To perform the identification test and test for purity of sulfanilamide

Aim:

To perform the identification test and test for purity of sulphaniamide

Reference :

‘ Dr. Gupta G.D. , Dr. Sharma Shailish , Kaur Baljeet ’ “Practical Manual of Pharmaceutical Chemistry” Published by Nirali Prakashan, Page no 80 - 83

Requirements:

Test tube, water bath, wet filter paper, oil bath, sulfanilamide, dilute hydrochloric acid, sodium nitrite, ice water, B-naphthol solution, sodium acetate, sodium hydroxide, and phosphorous pentoxide.

Procedure:

Identification Tests

- 1) 0.1g of sulfanilamide should be boiled in 10ml of dilute hydrochloric acid for 15 minutes and then cooled, 2ml of solution of ice water and 4ml of sodium nitrite solution should be added and again cooled. The mixture should be poured into 2ml of B-naphthol solution containing 1g of sodium acetate and as a result orange precipitate occurs.
- 2) 10g of sample should be dissolved in a mixture of 10ml of water and 2ml of 0.1N sodium hydroxide 0.5ml of copper sulphate solution should be added. as a result pale green turbidity appears at first but it gradually changes to a brownish grey, eventually becoming a reddish brown precipitate.

- 3) 0.5g of sample 3 should be placed in a test tube. A wet filter paper should be wrapped around upper portion of the test tube. The lower portion of the test tube should be placed in oil bath at 230-233°C. On the cooled tipper portice of the test tube, a white crystalline subliment collects. The gases that emerge during decomposition have a faint hydrogen sulphate odour. The subliment should be transferred into another test tube and dried for 2 hours over phosphorous pentoxide as indicated previously The subliment melts al range of about 151-153° C.

Test for Purity

- 1) 0.8g of Sulfanilamide should be dissolved in 10ml of 1M NaOH, the solution is not more strongly coloured than the reference solution.
- 2) Test for Heavy Metals: 1.0g sample passes the heavy metals limit test determined by (method B) in IP
- 3) Test for Sulphated Ash: Not more than 0.1% determined by the method in P
- 4) Loss on Dryleg: Note more than 0.5% determined on ig by drying in an oven at 105°C.

Result: The identification test and test for purity of sulfanilamide were performed as per IP.

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