Experiment

Assay of Chlorpromazine

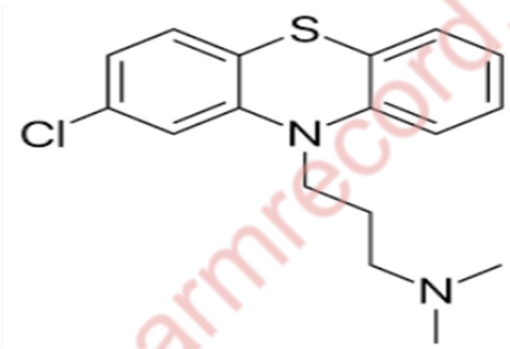
Aim;- To perform the Assay of Chlorpromazine.

Reference;- Indian Pharmacopoeia, 2007, The Indian Pharmacopoeia Commission, Ghaziabad, Volume 2, page 303-304.

Requirement;-

- **Chemicals-** Acetone, 0.1m perchloric acid, methyl orange.
- **Glassware-** beaker, conical flask, volumetric flask, Measuring cylinder, Glass rod, burette.

Theory;- Chlorpromazine is a medication used to manage and treat schizophrenia, bipolar disorder, and acute psychosis. It is a member of the typical antipsychotics or neuroleptic medication category, also known as first-generation antipsychotics.



Procedure;-

1. Weighed accurately about 0.6g and dissolved in 200 ml of acetone.
2. Added 15ml of mercuric acetate solution.
3. Titrated with 0.1M perchloric acid, using a saturated solution of methyl orange in acetone as indicator.
4. Carry out blank Titration.

Factor;-

Each ml of 0.1M perchloric acid equivalent to 0.03553g of C17H19ClN2S,HCl

Calculation;-

% purity of Chlorpromazine = volume of titrant **x** molarity **x** equivalent factor (wt of sample **x** 100).

Result;- The % purity of Chlorpromazine found to be ……..

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