

PHARMACEUTICAL ANALYSIS – BP102T

UNIT: III PRECIPITATION TITRATION, COMPLEXOMETRIC TITRATION,
GRAVIMETRY, AND DIAZOTISATION TITRATION

CLASS:22

TOPIC: MODIFIED VOLHARDS AND FAJAN'S METHOD

Modified Volhard's method:

Caldwell J.R and Mayer V.H modified this Volhard method by introducing wetting agent.

In this method Nitrobenzene is acting as a wetting agent and forms an insoluble protective layer over AgCl which minimizes the solubility of AgCl, hence we get accurate end point.

Fajan's method:

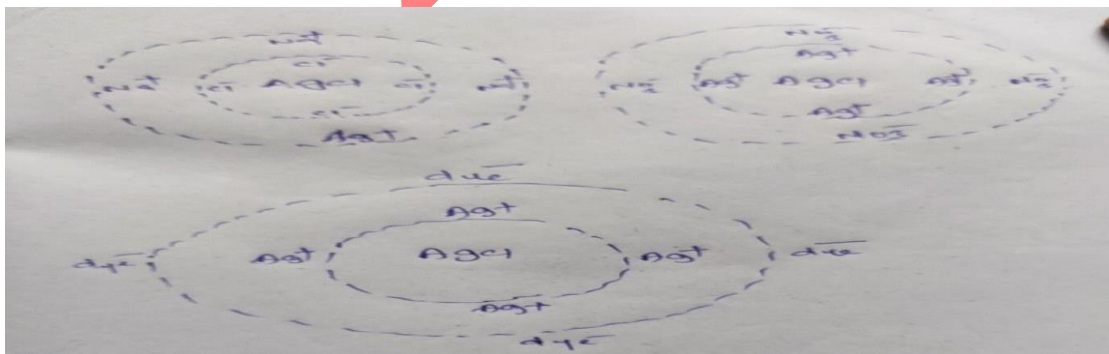
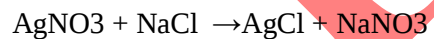
Titrant: AgNO₃,

Analyte: Halides,

Indicator: Adsorption indicator, Fluorescein, Dichloro-fluorescein Eosin, Red Bengal

Principle:

It is based upon the Adsorption mechanism.



The indicator forms a layer over silver chloride precipitate and forms pink colour, indicates the completion of reaction

Adsorption indicators are acidic/basic dyes

RRCP