

EX No 4 Chemical test: for Gelatin

Aim: To identify the chemical characters of given sample.

Background

Gelatin is occurs in thin sheets, strips or as granular powder. High grade gelatin light yellow, semi crystalline substance. It is Odourless and tasteless. In cold water it swells up and slowly dissolves on warming to form viscous solution.

Chemical Tests:

- 1) When gelatin is heated with soda lime in dry test tube, ammonia is evolved due to the presence of nitrogenous compound in gelatin.
- 2) Gelatin solution is added Million's reagent to give a white ppt, which turns red on heating.
- 3) Gelatin gives buff white ppt with tannic acid solution.
- 4) Biuret test to 3 ml of test solution of gelatin. NaOH (1ml of 5%) is added whereby white to whitish buff colouredppt is formed which does not dissolve on heating.
- 5) Yellow ppt. is formed on adding picric acid to solution of gelatin.
- 6) It gives yellow ppt. with trinitrophenol in aqueous solution.

CONCLUSION From the above morphological characters and chemical tests the given crude drug is identified as Gelatin.

REFERENCES 1.Kokate CK. Practical Pharmacognosy, 4 edition, VallabhPrakashan. Delhi; 1994; 98