

Aim :-

Perform solubility study of different crude drugs.

Reference :

Mohammad Ali textbook of pharmacognosy 2nd edition
CBS publication, page No: .

Requirement :-

Glassware :- Beaker, Test tube, glass rod.

Chemicals :- Methanol, Ethanol, Acetone.

Other : → Test tube holder, Test tube stands,
Test tube cleaning brush, pasteur pipettes.

Theory :

Crude drug :- Crude drugs are plant or animal drugs that contain natural substances that have undergone only the process of collection and drying.

Solubility :- Solubility is the ability of a substance, the solute, to form a solution with another substance, the solvent. Insolubility is the opposite property, the inability of the solute to form such a solution.

Observation table:

	Product	Water	Methanol	Ethanol	Acetone
1.	Peppermint	Insoluble	Soluble	Partially soluble	Soluble
2.	लैट्वान	Insoluble	Insoluble	Insoluble	Insoluble
3.	Arandi oil	Insoluble	Soluble	soluble	Insoluble
4.	निंबू तेल	Insoluble	soluble	Insoluble	soluble

Table:- Solubility of crude drug.

Viscosity :- Viscosity is the resistance of a fluid to flow. This resistance acts against the motion of any solid object through the fluid and also against motion of the fluid itself past stationary obstacles. Viscosity of a liquid is constant at a given temperature and is an index of its composition.

Procedure :

1. Take 4 test tube. Clean and dry each test tube.
2. One by one take test tube and fill it water, methanol, ethanol and acetone respectively.
3. Then take one crude drug and put it in all four test tube. Mix it and leave for sometime.
4. Now check its solubility and make a list.
5. And then clean the test tube and repeat the process. 2, 3 and 4 to check the solubility of all other given crude drugs.

Result :

Solubility of crude drug has been successfully checked of the given samples.

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14/11/22

Teacher's Signature _____