Detailed Method of Preparation of Slides for powdered bark botanicals

The following two types of slides are prepared for visualization of microscopical features present in a bark.

Slide I: It is prepared by overnight soaking of the powdered material in water. **500 mg** of material is taken in a test tube followed by addition of **10 ml** of water. Shake gently and allow it to soak overnight, almost for 24 hours.

The soaked powdered material is poured in a Petri plate and slide is prepared by mounting the contents on a clean and dried slide with the help of a brush and observed under Motic microscope moticam 3.0 MP, AE 2000.

Most of the features are visible by overnight soaking except Stone cells and Sclereids, which require treatment by an oxidizing agent.

Slide II: It is prepared by treating the powdered drug with an oxidizing agent, used for disruption of stone cells and sclereids. However, calcium oxalate crystals and starch grains are destroyed using this method.

200 mg of powdered material is boiled with **5ml of 50% nitric acid** followed by addition of a pinch **~ 100-150 mg** of potassium chlorate. The contents are poured in a petri plate after effervescence ceases and slide is prepared by mounting the contents on a clean and dried slide with the help of a brush and observed under Motic microscope moticam 3.0 MP, AE 2000.

Detailed Method of Preparation of Slides for powdered leaf botanicals

It is prepared by overnight soaking of the powdered material in water. **500 mg** of material is taken in a test tube followed by addition of **10 ml** of water. Shake gently and allow it to soak overnight, almost for 24 hours.

The soaked powdered material is poured in a petri plate and slide is prepared by mounting the contents on a clean and dried slide with the help of a brush and observed under Motic microscope moticam 3.0 MP, AE 2000.

All the features are visible by overnight soaking of the powdered drug.