



TENNESSEE BUREAU OF INVESTIGATION

Forensic Services Division

Forensic Chemistry Standard Operating Procedure Manual

Microscopes

15.0 MICROSCOPES

15.1 *Equipment and Maintenance*

15.1.1 Microscopes are used in the TBI FCU to visualize the morphological characteristics of plant material. Various brands of stereomicroscopes may be used providing they are capable of 10X magnification at a minimum.

15.1.2 Maintenance requirements are outline in Appendix I. The individual analyst is responsible for performing maintenance and recording it in the microscope log. Each microscope will have a log sheet that will be maintained in a nearby location.

15.1.3 Any other maintenance will be performed as necessary. Documentation is not required when replacing light bulbs.

15.1.4 Refer to the microscope logbook or Lab Documentation folder in Ensur for logs and additional microscope instructions.

15.2 *Operation*

- Turn on the microscope's light source.
- Ensure that the stage and eyepieces are clean.
- Place the sample on the stage.
- Adjust the magnification power to an appropriate level and adjust the focus as necessary to clearly see the sample.
- View the sample and record observations.
- Remove the sample from the stage and ensure that the stage is clean.
- Turn off the light source when finished using the microscope.