

Preparation of Samples for Microscopic Analysis

Introduction	180
Formal Sampling Techniques	180
Sampling of Medicinal Plants	181
Three-Class and Two-Class Sampling Plans	182
Sample Softening	183
Sectioning in Microscopy	183
Different Sections—Different Views	183
Surface Views	186
Methodologies for Preparing Sections	188
Sectioning by Hand	189
Sectioning Using a Mount	190
Sectioning Using the Microtome	190
Clearing and Mounting the Test Sample	191
Mounting for the Detection of Thermolabile Cell Contents	196
Defatting	197
Bleaching	198
Preparation of Powders	199
Milling and Sieving	199
Preparation of Samples That Cannot Be Powdered	200
Clearing and Mounting Powders	201
Use of Staining Reagents	202
Preparation of Permanent Slides	202
References and Bibliography	206