

ISO 20579-3:2021 (E)

Surface chemical analysis — Sample handling, preparation and mounting — Part 3: Biomaterials

Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Abbreviated terms
5	Explanation of the structure of this document
6	General requirements and classes of specimens
6.1	General information
6.2	Handling
6.3	Packaging
6.4	Toxins and other hazardous materials
7	Specimen considerations
7.1	History of the specimen
7.2	Information sought
7.3	Categories of specimen
8	Sources of specimen contamination
8.1	Sample preparation
8.2	Tools
8.3	Sample handling
8.3.1	General
8.3.2	Exposure to gases
8.3.3	Minimize contamination of the analysis area
8.4	Separation between neighbouring areas
9	Specimen storage and transfer of biomaterials
9.1	Storage
9.1.1	Storage time
9.1.2	Descriptive list of containers for biomaterials
9.2	Temperature and humidity
10	Education of specimen owner on appropriate specimen handling procedures
11	Specimen mounting procedures of biomaterials
12	Methods for reducing specimen charging
13	Specimen preparation techniques of biomaterials
13.1	Mechanical separation
13.2	Sectioning techniques
13.3	Solvents for biomaterials
13.4	Chemical etching
13.5	Ion sputtering
14	Fracturing, cleaving and scribing
15	Specimen-handling techniques