

1. Record Nr.	UNINA9910790023103321
Autore	Meah M. S (Mohammed Shahabu)
Titolo	Essential laboratory skills for biosciences [[electronic resource] /] / M.S. Meah and E. Kebede-Westhead
Pubbl/distr/stampa	Chichester [England] ; ; Hoboken, N.J., : Wiley-Blackwell, 2012
ISBN	1-119-96676-0 1-280-58960-4 9786613619433 1-119-95146-1
Descrizione fisica	1 online resource (162 p.)
Altri autori (Persone)	Kebede-WestheadE (Elizabeth)
Disciplina	507.2/1
Soggetti	Chemistry Chemical apparatus Laboratory Manual Handbook manuals (instructional materials) handbooks. Handbooks and manuals Laboratory manuals Handbooks and manuals. Laboratory manuals. Manuels de laboratoire Guides et manuels.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Essential Laboratory Skills for Biosciences; Contents; List of Figures; List of Tables; Acknowledgements; Introduction; Health and Safety; 1 Measurements and Calculations; 1.1 Units and measurements; 1.2 Measuring the volumes of liquids; 1.3 Pipetting; 1.4 Weighing; 1.5 Calculations; 2 Preparing Solutions; 2.1 Common terms defining solutions; 2.2 Precautions in making solutions; 2.3 Making solutions; 2.4 Dilutions to prepare standard solutions; 2.5 Molar solutions; 2.6 Calculations involving solutions; 3 Separation of Liquids and Solids; 3.1

Filtration; 3.2 Centrifugation; 3.3 Chromatography  
3.4 Electrophoresis  
4 Common Techniques and Equipment; 4.1 Titration; 4.2 Spectrophotometry; 4.3 Aseptic techniques; 4.4 Disinfectants; 5 Microscopy and Histology; 5.1 Light microscopy; 5.2 Slide preparation; 5.3 Cell Counting; 6 Cardiorespiratory Measurements; 6.1 Techniques to investigate cardiovascular function; 6.2 Techniques to investigate respiratory function; 7 Recording and Presenting Data; 7.1 Keeping a laboratory book; 7.2 Presentation of data; 7.3 Recording data in tables; 7.4 Presenting data in graphs; 7.5 Describing data statistically; Recommended Reading  
Appendix 1: Rules for Powers  
Appendix 2: Rules for Logarithms;  
Appendix 3: Factors to Consider When Making Solutions; Appendix 4: Principle of Spectrophotometry; Appendix 5: Descriptive Statistics and Formulae; Appendix 6: Using Software to Draw Tables, Graphs and Calculating Descriptive Statistics; Index

---

#### Sommario/riassunto

Essential Laboratory Skills for Biosciences is an essential companion during laboratory sessions. It is designed to be simple and give clear step by step instructions on essential techniques, supported by relevant diagrams. The book includes the use of particular equipment and how to do simple calculations that students come across regularly in laboratory practicals. Written by experienced lecturers this handy pocket book provides: Simple to follow laboratory techniques Clear use of diagrams and illustrations to explain techniques, procedures and equipment Step by step wo

---