Most lab manuals assume a high level of knowledge among biochemistry students, as well as a large amount of experience combining knowledge from separate scientific disciplines. ***Biochemistry in the Lab: A Manual for Undergraduates*** expects little more than basic chemistry. It explains procedures clearly, as well as giving a clear explanation of the theoretical reason for those steps.

Key Features:

- Presents a comprehensive approach to modern biochemistry laboratory teaching, together with a complete experimental experience
- Includes chemical biology as its foundation, teaching readers experimental methods specific to the field
- Provides instructor experiments that are easy to prepare and execute, at comparatively low cost
- Supersedes existing, older texts with information that is adjusted to modern experimental biochemistry
- Is written by an expert in the field

This textbook presents a foundational approach to modern biochemistry laboratory teaching together with a complete experimental experience, from protein purification and characterization to advanced analytical techniques. It has modules to help instructors present the techniques used in a time-critical manner, as well as several modules to study protein chemistry, including gel techniques, enzymology, crystal growth, unfolding studies, and fluorescence. It proceeds from the simplest and most important techniques to the most difficult and specialized ones. It offers instructors experiments that are easy to prepare and execute, at comparatively low cost.

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