

BASIC MOLECULAR BIOLOGY

MODULE 3: NUCLEIC ACID EXTRACTION



DESCRIPTION

Molecular techniques have been widely used in clinical diagnosis, e.g., diagnosing disease, predicting disease course, and identifying infectious agents. This basic Molecular Biology course series will introduce the scientific background for molecular diagnosis, the principles of laboratory settings, and common methods.

This basic-level eLearning course, Module 3, provides information on nucleic acid extraction. Topics covered include extraction method selection, basic extraction steps, and nucleic acid analysis.

AUDIENCE

This online course is designed for public health and clinical laboratory staff, and persons interested in nucleic acid extraction.

SPECIAL NEEDS

Course content is closed-captioned, where applicable, and optimized for a screen reader.

FREE REGISTRATION

- Locate the course online at www.cdc.gov/labtraining.
- Follow the link to register for the course in TRAIN.
- If you have difficulty with the online registration process, please email labtraining@cdc.gov.

OBJECTIVES

At the conclusion of this course, the learner will be able to:

- Identify the four major factors used in selection of the nucleic acid extraction method
- Outline the three basic steps in nucleic acid extraction
- Explain how to analyze nucleic acid quantity and purity by spectrophotometry and gel electrophoresis
- Identify common problems in nucleic acid extraction

CONTINUING EDUCATION

The Centers for Disease Control and Prevention Division of Laboratory Systems is approved as a provider of continuing education programs in the clinical laboratory sciences by the ASCLS P.A.C.E.® Program. This course is approved for 1.5 contact hour(s) of P.A.C.E.® credit. P.A.C.E.® number: 288-010-21.



For a complete list of courses, visit <https://www.cdc.gov/labtraining>.