

BIOCHEMICAL TESTING IN ACTION

ACTIVITY: Exploring Biochemical Tests Through Practical Learning

DATE: 21 April 2026

CONDUCTED BY: Class XI

Students of Class XI engaged in an enriching laboratory activity that transformed theoretical concepts into practical understanding. The experiment focused on the qualitative analysis of a given sample to detect the presence of important biomolecules, namely bile salts and albumin.

Using established biochemical techniques, students identified bile salts through **Gmelin's Test** and confirmed the presence of albumin using **Heller's Test**. Careful observation of distinct colour changes and characteristic ring formation enabled students to interpret positive reactions and draw scientific conclusions.

The activity provided valuable hands-on experience in conducting laboratory investigations, reinforcing students' understanding of biochemical tests and their applications. It also enhanced their observational, analytical, and interpretative skills, encouraging precision and scientific thinking.

By connecting classroom concepts with real-world laboratory practices, the session fostered curiosity, critical thinking, and a deeper appreciation for experimental biology, making learning both engaging and meaningful.



