

Module description

Module title: Protein biochemistry– practical part.

Module objective:

- Practical knowledge in the protein biochemistry field.
- Understand the principles behind basic experiments on proteins.

Mark distribution: Total mark is 25:

- 5 marks for quizzes.
- 5 marks for lab reports.
- 1 mark for HomeWorks.
- 1 mark for performance.
- 13 marks for final exam: ▪ 9 marks for practical part. ▪ 4 marks for theoretical part.

Module experiments:

1. General Laboratory Guidelines.
2. Qualitative tests of amino acids.
3. Quantitative amino acids estimation by ninhydrin method
4. Effect of various factors on protein solubility and structure.
5. Protein extraction from animal and plant source.
6. Protein fractionation by ammonium sulphate and dialysis.
7. Detection and quantitative estimation of proteins by different methods.
8. Effect of various factors on α -amylase activity.