

Name & Entry No.:

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SBL100 LABORATORY

Laboratory on Protein Estimation

Aim: To understand how to visualize and/or “measure” biomolecules – in this case “proteins”.

Methodology: (1) Operations of spectrophotometer, calibration of the spectrophotometer for “Bradford Assay”.
(2) Extraction of “crude extracts” from biological samples for estimation of total protein content.

Results: IN THE SPACE GIVEN BELOW AND/OR ON THE BACK SIDE

1. SHOW ONE PLOT OF ANY CALIBRATION CURVE OBTAINED BY YOU. (3)
2. EXPLICITLY SHOW UNITS (e.g. “mg/ml” or “mM” for milimolar) ON BOTH AXES. (1)
3. ON THE PLOT, MARK O.D. AND PROTEIN CONTENT OF YOUR SAMPLES by arrows. (2)

Conclusions: FILL IN THE INFORMATION BELOW

1. Protein concentration in your sample = (1)
2. Total protein amount in your sample = (1)
3. Does the protein content remain the same OR decrease OR increase after storage at 4°C? Why? (2)