

## **Techniques for Measuring Lysozyme Activity and Protein Concentration**

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### **Practical:**

#### **Abstract**

Practical 1 of a set of 4 linked practicals for biochemistry modules.

This experiment introduces the techniques of measuring enzyme activity and protein concentration using spectroscopic analysis.

#### **Intended academic level**

undergrad2

#### **Duration**

3 hours

#### **Learning Outcomes**

Students will have used spectroscopy and reinforces practical principles e.g. calibration, dilution of samples, washing of samples etc.

Measurement of enzyme activity.

Inter-relationship of data from different analytical techniques (activity, concentration, and electrophoresis).

#### **Materials**

Various. Gilson pipettes, eppendorf tubes, centrifuge, spectrometers plus cuvettes, test tubes, reagents.

#### **Costs**

#### **Further comments**

The four practicals are linked with practical 1 introducing the techniques. The four practicals can be related at the end to explain why enzyme activity and protein concentration vary in the samples, and electrophoresis demonstrates this visually.

#### **Reading**

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