

## **Purification of Lysozyme from egg white PT2**

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### **Practical:**

#### **Abstract**

Practical 3 of a set of 4 linked practicals for biochemistry modules.

Practical 1 introduces the techniques of measuring enzyme activity; practical 2 uses ion exchange to extract lysozyme from egg white, and measures enzyme activity.

This practical measures protein concentration in the extracts.

### **Intended academic level**

undergrad2

### **Duration**

3 hours

### **Learning Outcomes**

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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