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**Product Name :**  
Batch Enzyme Reactor Apparatus

**Product Code :**  
LBNY-0005-1740001



#### **Description :**

The reactors use the saponification reaction between ethyl acetate and sodium hydroxide. This provides a well understood and safe reaction for the students to investigate the different reactor types.

This is a reactor system specially designed to perform batch enzyme reaction utilizing the glucose isomerisation reaction catalyzed by glucose isomerase. The unit is used to demonstrate batch enzyme kinetics and enzyme characteristics.

The fourth reactor - stirred tank reactor in series - is mounted on a dedicated unit.

Developed a set of algorithms which link the degree of conversions of the reactants to the electrical conductivity of the product. In this way the progress of the reaction can be monitored in real time, without the inconvenience and inaccuracy of titration methods.

#### **Features:**

- Real time reaction monitoring
- Small bench top equipment
- Safe and student friendly
- Four different types of reactor
- Data logging facility available
- Cost effective - 3 reactors share same service unit.

#### **Technical Specification :**

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**Laboratory Instrument India**