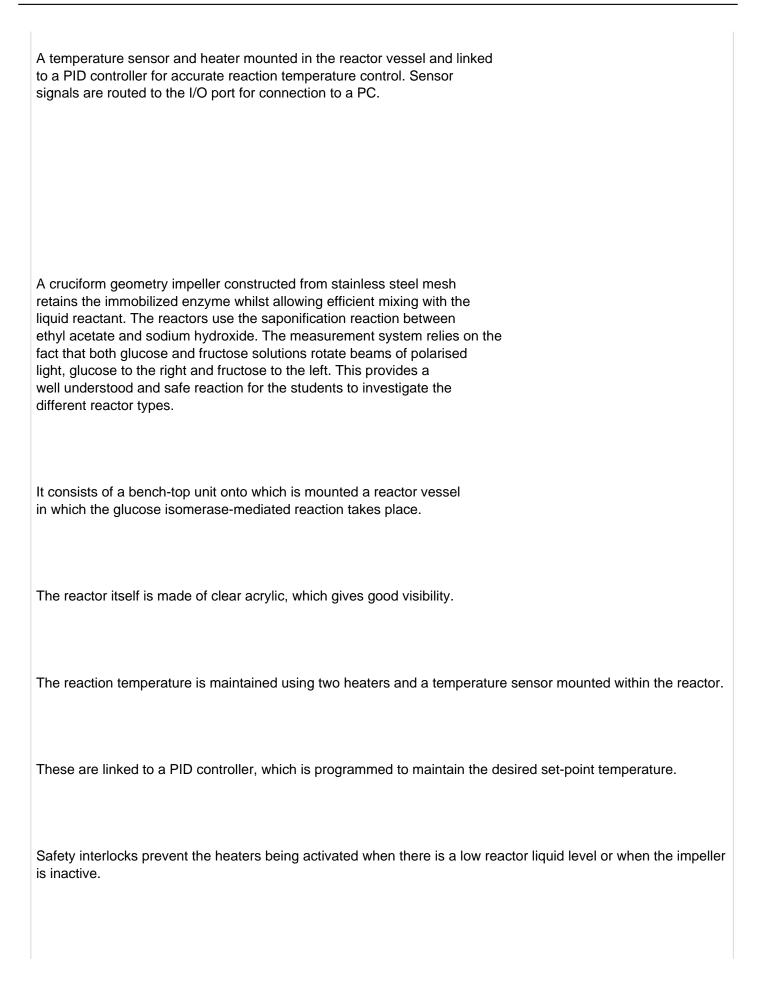
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Product Name : Batch Enzyme Reactor	Product Code: NLAB-EDUCATIONTVET16004
Description :	
Batch Enzyme Reactor	
Technical Specification :	
Batch Enzyme Reactor -	
This is a reactor system specially designed to perform batch enzyme reaction utilizing the glucose isomerization 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.	
A bench top unit comprising a vacuum formed ABS plastic plinth with integral electrical console onto which is mounted the stirred reactor vessel sampling circuit with peristaltic pump, tubular coil heat exchanger and polarimeter device.	
A polarimeter device measuring optical transmission and angle of rotation. circuits.	Protection devices for all electrical
Three displays: PID temperature control (reactor temperature), a display for the angle of rotation, a display for optical transmission or temperature at polarimeter.	

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A continuous sampling loop driven by a peristaltic pump removes liquid from the reactor and transfers it to a tubular coil heat exchanger where it is cooled prior to passing through a polar meter where the angle of rotation of polarised light is measured.
From this angle measurement, the concentration of both glucose reactant and fructose product can be determined.
The impeller is a variable speed type.
This eliminates the need for manual glucose assays.

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The polarimetry measurement method allows the progress of the reaction to be monitored on-line.

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