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Product Name :

Solar Bio Fuel Ready-to-go

Product Code :

SLE/PHY/205



Science Lab

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Description :

Solar Bio Fuel Ready-to-go (Product Code: SLE/PHY/205) is a portable biofuel experiment case used to run the entire process of producing biofuel as student experiments, from resource selection and fermentation through distillation to electricity from an ethanol fuel cell. Its aluminium suitcase holds the parts and components, including two digital multimeters and a stand set, so it can be used from any location, and it also covers biodiesel made by transesterification of fats. Itis manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Format	Aluminium suitcase containing the parts and components; usable from any location
Experiment programme	Four parts: biodiesel production, alcohol fermentation, distillation and production of bioethanol, ethanol fuels
Distillation	Custom-built Solar-condenser; the resulting ethanol is then characterised
Energy conversion	Provided ethanol fuel cell converts the biofuel into electricity
Measuring instruments	2 digital multimeters, laboratory thermometer, alcoholmeter, areometer
Extras needed (not included)	1 x Supplementary BioFuel; 1 x Bunsen burner
Yeast shelf life	Depends on storage conditions; ask us for the date of the batch you are quoted
Product code	SLE/PHY/205
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

Experiments:

- Part 1, biodiesel production: transesterification from fat to biodiesel (FAME); determination of fat parameters; extraction of fats from foods and oil plants
- Part 2, alcohol fermentation: production of a mash / alcoholic fermentation; fermentation of different sugar types, including catalytic splitting of starch; proof of fermentation gases
- Part 3, distillation and production of bioethanol: distillation of mash; characteristics of the produced ethanol
- Part 4, ethanol fuels: introduction to the ethanol fuel cell; I-V curve of ethanol fuel cells; dependency of ethanol fuel cells on concentration and temperature; energy balance of the whole process

Components:

- Fuel cell and electrical: 1 x solar ethanol fuel cell module, 1 x potentiometer module, 1 x motor module without gear, 1 x propeller, 2 x digital multimeter, 3 x test lead black 25 cm, 2 x test lead red 25 cm
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