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Product Name :

Solar Bio Fuel Large

Product Code :

SLE/PHY/204



Science Lab

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Description :

Solar Bio Fuel Large (Product Code: SLE/PHY/204) is a biofuel experiment set used to demonstrate the entire process of producing biofuels, from alcoholic fermentation to electricity from an ethanol fuel cell, in school and college science labs. Besides bioethanol it also covers biodiesel production through transesterification of fats, and the fermented mash is distilled with a Solar-condenser developed for this experiment. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Process covered	The entire process of producing biofuels
Fuels	Bioethanol, and biodiesel through transesterification of fats
Step 1	Alcoholic fermentation (the biological step)
Step 2	Distillation of the mash with the Solar-condenser developed for this experiment
Step 3	Conversion of the biofuel into usable energy, such as electricalenergy, with the provided ethanol fuel cell
Distilling head	2 cores, 75°, NS 19/26
Yeast shelf life	Depends on storage conditions; ask us for the date of the batch you are quoted
Product code	SLE/PHY/204
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

Components:

- Fuel cell and electrical modules: 1 x solar ethanol fuel cell module, 1 x potentiometer module, 1 x motor module without gear, 1 x yellow propeller
- Glassware and fittings: 1 x Erlenmeyer flask 1000 ml, 1 x distilling head (2 cores, 75°, NS 19/26), 1 x condenser, 1 x beaker 250 ml, 1 x measuring cylinder 100ml, 3 x test tubes, 1 x airlock, 1 x rubber stopper, 1 x grip stopper, 1 x silicone ring, 1 x plug with hose
- Measuring and dosing: 1 x laboratory thermometer, 1 x alcoholmeter, 1 x areometer, 1 x syringe 2ml, 3 x Pasteur pipette
- Consumable: 1 x yeast
- Storage and documents: 1 x box, 1 x lid for tray, 1 x padding “Bio Fuel-Large”, 1 x Solar-CD, 1 x packing layout plan (Einräumplan) Bio Fuel Large, 4 x transparent bump-on feet 5.0 mm high x 11.1 mm diameter

What Is the Solar Bio Fuel Large Used For?

The set follows the chain from sugar to electricity. Students ferment a sugar-containing mash with yeast under the airlock, follow the change in density with the areometer, distil the mash through the distilling head and condenser, and check the strength of the distillate with the alcoholmeter. The e s studie biodie

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