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Product Name :

Solar Bio Energy Ready-To-Go

Product Code :

SLE/PHY/203



Description :

Solar Bio Energy Ready-To-Go (Product Code: SLE/PHY/203) is an extensive experiment system used to reconstruct and understand the whole biomass cycle, from seed germination to the energetic use of biomass, in school and college science labs. Students grow plants in a cultivation box and hydroculture, then follow the aerobic and anaerobic degradation of that biomass in compost and biogas processes, without any additional equipment. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, a physics instruments supplier in India.

Specifications

Parameter	Detail
System type	Experiment system for the whole biomass cycle, usable without additional equipment
Plant growth	Cultivation box and hydroculture for observing sprouting and growth
Degradation processes	Aerobic degradation in a compost; anaerobic degradation in biogas processes
Analysis	Water and nutrient consumption in the different growth phases
Energy parts	PEM fuel cell module, motor module without gear, Solar-Base unit small and propeller
Cases	Aluminium case 1710, silver, and aluminium case 1710, blue
Consumables shelf life	Depends on the item (seeds, fertilizer, compost catalyst) and its storage; ask us for the dates of the batch you are quoted
Product code	SLE/PHY/203
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

Experiments:

- Germination of plant seeds
- Aerobic degradation of biomass in a compost
- Anaerobic degradation of biomass to form hydrogen
- Anaerobic degradation of biomass to form methane
- Plant growth in a hydroculture
- Consumption of water and nutrients

Components:

- Modules and electrical parts: 1 x motor module without gear, 1 x PEM fuel cell module, 1 x Solar-Base unit small, 1 x propeller, 2 x short-circuit plug, 1 x test lead black 25 cm, 1 x test lead red 25 cm
- Growing parts: 1 x seed set, 1 x sprout box, 50 x net cup planter, 2 x expanded clay pebbles, 1 x fertilizer, 2 x pot holder Bio Energy, 2 x plant light, 1 x tripod plant lighting, 1 x air pump, 2 x aeration stone, 1 x nebulizer, 2 x timer, 1 x EC meter
- Compost and gas parts: 1 x composter, 1 x compost catalyst, 1 x gas collecting container,