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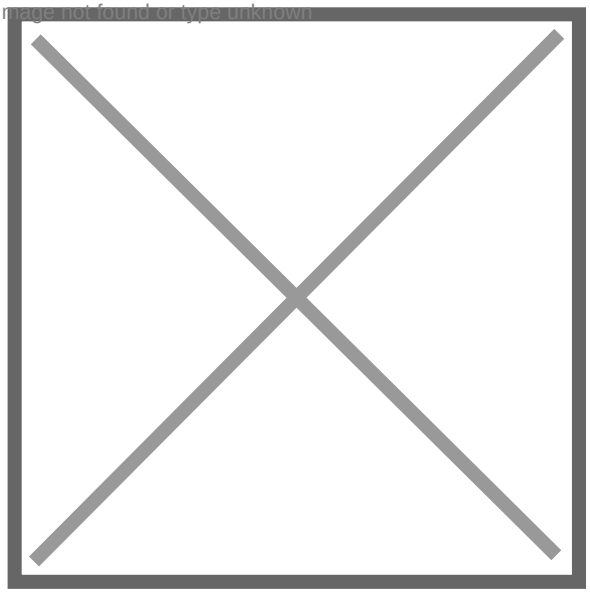
Product Name :

Bell Jar (Plant Physiology)

Product Code :

SCL1455/020

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Description :

Bell Jar (Plant Physiology) is a bell-shaped cover of thin, transparent, heat-resistant glass, 20 x 10 cm, used to enclose a small plant, specimen or piece of apparatus so that the air around it can be controlled and watched. Set on a suitable plate, it can also contain a vacuum.

Plant physiology bell jar specifications

Parameter	Detail
Material	Glass
Size	20 x 10 cm
Shape	Bell-shaped
Construction	Thin glass, made with care for optical clarity
Properties	Transparent, heat resistant
Purpose	Enclosing plants, specimens or apparatus; can be used to contain a vacuum
Product code	SCL1455/020
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Plant physiology experiments under the bell jar

Transpiration. Water a small potted plant well, wrap the pot and soil in polythene, stand it on a glass plate and cover it with the jar in sunlight. Within a few hours droplets mist the inside of the glass, and a strip of dry cobalt chloride paper inside turns from blue to pink. A wrapped pot with no plant under a second jar is the control.

Carbon dioxide and photosynthesis. Destarch two potted plants in the dark, then stand each on a glass plate under a jar sealed with petroleum jelly. One jar holds a small dish of potassium hydroxide solution made from potassium hydroxide pellets, which absorbs carbon dioxide, and the other a dish of water. After several hours in bright light, a leaf from each plant is boiled in water, cleared in alcohol warmed in a water bath and tested with iodine solution. Only the control leaf turns blue-black. Wear gloves and goggles when handling the alkali.

Respiration in seeds. Place a dish of soaked, germinating seeds under the jar beside a small beaker of clear lime water and seal the rim. Over several hours the lime water turns milky as the seeds give off carbon dioxide, while in a control jar without seeds it stays clear far longer.

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