31377

Protoplast Fusion Kit from Plants (Teaching)

Part E

Specifications

Activity	Place one drop of leaf or petal soaked in Macerozyme on to a microscopic slide. Place a cover-slip on the slide and observe spherical shaped protoplast under a microscope. Adding PEG to the mixture and icubated for 30 minutes for fusion of protplast.
Microscopy test	spherical shaped protoplast forms a dumble shaped structure indicating fusion.

Other Information

Description	Protoplast fusion is used to generate hybrids with useful characteristics in plants. Protoplasts are plant cells whose cell wall has been removed and only the thin plasmalemma surrounds it. They can be prepared from plant tissues like leaves and petals. Treatment of tissue with cell wall lysis enzymes separates cells from their connective tissues and breaks down the cell wall. The ensuing preparation consists of protoplasts. Fusion of these protoplasts is accomplished in the presence of polyethylene glycol and the fusion (see picture) can be viewed under a microscope.
Includes	Macerozyme - 1 g 0.6 M osmotic buffer - 30 ml Polyethylene Glycol - 1 ml Microscopic Slides - 30 Nos Cover slips - 50 Nos

General Information

Storage	Includes components ranging from RT to -20°C
Shelf Life	12 Months
IMDG Identification	Not Regulated for Transport (Non-Haz)
HSN Code	
15 expt. Kit	38229090 (GST 12%)

Available Packages

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