Email : sales@scilabexport.com
Phone: +91-7082934803

**Product Name :**

DNA extraction lab kit

**Product Code :**

SLE/EB/07



Email : sales@scilabexport.com
Phone: +91-7082934803

## Description :

The DNA extraction lab kit lets students release DNA from cells and see it with the naked eye, as white strands they can lift out on a glass rod. It serves school and college practicals in molecular biology, genetics and biotechnology. The method has three stages: break the cells open, separate the liquid from solid debris, then bringthe DNA out of solution with cold alcohol.

## DNA extraction kit details

| Parameter | Detail |
|---|---|
| Type | Biology practical kit |
| Purpose | Classroom DNA extraction activity |
| Subject area | Molecular biology, genetics and biotechnology teaching |
| Suitable for | School and college biology practicals |
| Contents | Vary between kit versions; the current list is supplied on request |
| Product code | SLE/EB/07 |
| Minimum order | 10 units |
| Dispatch | Usually within 7 to 10 working days |
| Supplied by | ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India |

## DNA extraction practicals for school and college

Onion or fruit extraction. Grind soft tissue in a pestle and mortar with detergent and salt solution, then filter it through filter paper in a glass funnel. Trickle chilled ethanol down the side of the tube so it floats on the filtrate. Strands gather at the boundary and wind onto a glass stirring rod.

Enzyme step for senior classes. Add protease enzyme to the filtrate before the alcohol to digest proteins bound to the DNA, and run an untreated tube beside it. For tissue with tough cell walls, cellulase enzyme breaks down the cellulose first.

Comparing samples. Groups extract from different materials, such as onion, banana and green peas, keeping volumes and times the same. They compare how much material collects in each tube and discuss why tissues with many small cells, or more copies of each chromosome, can give more DNA.

From strands to structure. After the extraction, students build a section of the double helix with the Molecular Model Kit, Two Layer DNA, so the tangled strands on the rod connect to the paired-base structure in their textbooks.

## Fre

## Wh