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Product Name :

Enzymes In Seeds Kit

Product Code :

SLE/EBT/14



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Description :

Enzymes In Seeds Kit (Product Code: SLE/EBT/14) is a class practical kit used to show how enzymes break down stored starch in germinating seeds in secondary and pre-university biology labs. Students test pea and bean seeds with Lugol's solution in 15 three-part plastic test dishes, guided by 30 worksheets, which makes it a ready enzyme experiment kit for school classes. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
3-part plastic test dishes	15
Pans with pea seeds	5
Pans with bean seeds	5
Absorbent paper	Included
Lugol's solution	3 bottles
Student worksheets	30
Shelf life	Shelf life depends on the chemical, its grade and storage conditions; ask us for the expiry date of the batch you are quoted.
Product code	SLE/EBT/14
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Enzymes In Seeds Kit Used For?

Seeds store food largely as starch, and when they take up water and start to germinate, enzymes such as amylase convert that starch into sugars the young plant can use. The worksheets set out the procedure; a typical approach is to place seeds on moist absorbent paper, leave some to soak and sprout while others stay dry, and then test cut seeds with a drop of Lugol's solution. Iodine turns blue-black where starch is present, so a paler reaction in germinating seeds is visible evidence that enzymes have been at work. The three compartments of each test dish hold dry, soaked and sprouting seeds side by side for a fair comparison.

Testing both peas and beans adds a second variable and prompts discussion about differences between seed types. As an enzyme activity kit for biology classes, it links neatly to lessons on digestion, where the same starch-to-sugar reaction occurs. Lugol's solution stains skin and clothing, so students should wear gloves and eye protection, and seeds used in experiments must not be eaten.

What to Specify When Ordering

- The number of kits, bearing in mind each kit has 15 test dishes and 30 worksheets.
- Whether extra iodine reagent is wanted beyond the 3 bottles of Lugol's solution in each kit.