

Department of Biotechnology and Genetics
A report on additional experiment conducted for B.Sc. I year (I sem)
Student (Biotechnology) - Under DBT Star College Scheme
“To isolate DNA from Fruit sample (Banana).”

A one-day hands-on training was conducted on “Isolation of DNA from Fruit sample (Banana)”, on October 10th 2023 for B.Sc. I year (I sem) students (Biotechnology) under DBT star scheme program. A total of 98 students successfully participated in this additional experiment.

The main objective of this programme is to isolate the DNA from Fruit sample (Banana).

DNA which is the genetic material can be isolated from cells and tissues of animals by high salt and phenol extraction method. In the method of high salt extraction (alkaline lysis), saline sodium citrate (SSC buffer) buffer is used in cell disruption. Fibrous white strand was spooled out when treated with ethanol. These strands were further purified, dried and stored in TE buffer.









The learning outcomes of the students was preparing a suitable buffer with required pH and isolate the DNA using fruit (Banana) sample.

All the participants have submitted their observations and results in the form of handouts.

The in-charge faculties for the conduction of the experiments were **Dr. Satish Babu, Dr. Vijayalakshmi T.N. and Dr. Geethika Panth** from the Department of Biotechnology and Genetics.