DANAEXTRACTOR KIT

1. OBJETIVE OF THE EXPERIMENT

This is a kit that allows basic extractions of DNA from animal tissues (chicken liver). No apparatus (bath incubator, centrifuges, etc.) is needed and it is aimed for any type of student.

Unlike home methods, DNA appears as a strand or white thread in the solution.

*It is very **IMPORTANT** that the liver samples are fresh to obtain a visible result of the DNA.*

It is recommended and helpful to watch the practice video before beginning the experiment. http://bioted.es/

2. KIT INCLUDES

Lysis solution (blue cap): 3 ml; **Saline solution (red cap): 1.5 ml**; **Isopropanol (white cap): 2 ml**; 1 paper filter; 3 pipettes (3 ml); 2 tubes (10 ml); 1 glass rod; 1 funnel.

* **Keep Isopropanol always at 4ºC, if possible, at least 2 hours before the experiment**.

3. PRACTICE

1. Weigh **250 mg of liver**. These amounts should not be accurate (do not exceed 300 mg and less than 150 mg). *It is very **IMPORTANT** that the samples are fresh to obtain a visible result of the DNA*.

2. Pass the sample into a supplied 10 ml tube.

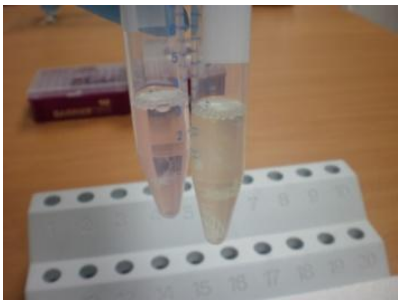
3. **Add 3 ml of Lysis solution** (**blue cap**) **and incubate for 15 minutes**. Homogenize the samples with the glass rod until the dissolution of the tissues (see photo), for it to grit with the rod at the beginning and every 5 minutes until the 15 minutes.


4. **Add 1.5 ml of Saline solution** (**red cap**).

5. Shake to precipitate proteins.

6. Place a funnel in a new 10 ml tube and a paper filter in the funnel and filter **the solution**. Usually collect 1.5 - 2 ml.

7. **Add 2 ml of cold isopropanol** (**white cap**), shake gently and the DNA appears as a strand. **It is important that isopropanol has been at least 2 hours at 4 ° C and stirring should be gentle so as not to break the DNA strands apart**.



For any additional questions or queries, please contact the technical service who will answer all your questions, info@bioted.es