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**Year 12 General Human Biology**

**Task 1: Practical – DNA extraction (5%)**

**Notes for teachers and laboratory technicians**

**Conducting the practical assessment**

The task should take approximately 40 minutes. Depending on the number of students and availability of equipment, there are several ways to approach this task.

1. Each student has their own set-up for the task and the teacher observes the students as they work.
2. Students could be rotated through the task over a number of lessons, with remaining students working on the structure and function of reproductive systems activities.
3. Procedure can be adjusted to suit the selected plant material and availability of equipment.
4. Isopropanol, rubbing alcohol, can be purchased from pharmacies and most supermarkets. If using ethanol instead of isopropanol change the name of the chemical in the safety data sheet in Part 1. The remaining information in the document doesn’t need to be adjusted. Safety data sheet is a simplified version of those available online..

**Equipment required per student or station**

* 3 x 100 mL beakers
* 3 x 250 mL beakers
* 100 mL measuring cylinder
* 250 mL measuring cylinder
* forceps
* electronic balance (or access to an electronic balance)
* zip lock sandwich bag
* sieve
* gauze
* piece of fruit
* chopping board and knife

**Equipment required per class**

* liquid detergent
* salt
* ice-cold isopropanol (keep in refrigerator prior to activity and place in a beaker of ice water during the activity.