

Standard Operating Procedure XI: Saliva Collection and Processing using ORAgene Kits

**** NOTE:** The following procedure is to be performed wearing laboratory coat, gloves, eye protection, and mask.

****NOTE:** This procedure is for the ORAgene self collection kit OG-250 (disc format). Other kits may be used where applicable using the manufacturer instructions for collection.

See <http://www.dnagenotek.com/index.html> for more details and technical documents (accessed June2010).

1. The ORAgene kits are stored ambient in the TRC lab. Kits are distributed to investigators as required and the number of kits per investigator documented in the lab notebook. Investigators are billed per kit. The purifier solution is also stored ambient in the TRC lab and aliquots of the amount required based on the number of kits distributed are transferred to the investigator at the same time as the saliva samples (OG-L2P; 20 μ L/0.5 mL saliva = 80 μ L/4 mL saliva in one kit).
2. Have the patient spit into the collection vessel (clear portion) until it reaches the lower line. They must complete this process within 30 minutes. If there are problems obtaining enough saliva, have the patient rub the sides of their mouth with their tongue, or $\frac{1}{4}$ tsp of plain white sugar may be placed on the tongue to help create more saliva.
3. Place the filled container on a flat surface and screw on the blue lid.
4. Secure tightly and invert the container to mix gently for a minimum of 10 seconds.
5. The filled containers may be store for up to 1 year at room temperature, however freezing the sample shortly after collection is optimal (see protocol PD-PR-012 on long term storage for more details).
6. Four or more aliquots of 0.5 mL or 1.0 mL in 2 mL cryovials are to be stored at -80°C indefinitely. Label all tubes using TRC SOP I.
7. When DNA is to be isolated, use DNA genotek protocol PD-PR-006 for 0.5 mL of saliva or PD-PR-015 for 4.0 mL of saliva. These are manual purification protocols, other protocols may be found on the above website.



Supplies

- P1000 pipet
- Sterilized 1 ml filter pipet tips
- 2 ml cryogenic freezing tubes
- Labels and label printer