



QIAGEN Supplementary Protocol:

Scalable purification of archive-quality DNA from 5–60 mg mouse tail tissue using the Gentra® Puregene® Mouse Tail Kit

This protocol provides information about scaling of reagents required for purification of DNA from 5–60 mg mouse tail tissue using the Gentra Puregene Mouse Tail Kit.

The Gentra Puregene Mouse Tail Kit enables convenient, scalable purification of DNA from mouse tails. Reagent volumes are scaled proportionately according to the amount of starting material. Table 1 shows the volumes of reagents required for DNA purification from 5–60 mg tissue. The information provided in Table 1 is intended to supplement the information given in “Protocol: DNA Purification from Mouse Tail Using the Gentra Puregene Mouse Tail Kit” in the *Gentra Puregene Handbook*.

IMPORTANT: Please read the *Gentra Puregene Handbook*, paying careful attention to the safety information, before beginning this procedure. For safety information on the additional chemicals mentioned in this protocol, consult the appropriate material safety data sheets (MSDSs), available from the product supplier. The Gentra Puregene Mouse Tail Kit is intended for molecular biology applications. This product is not intended for the diagnosis, prevention, or treatment of a disease.

Table 1. Purification of DNA from 5–60 mg mouse tail tissue

	Weight of tissue (mg)				
	5–10 (5 mm)	10–20 (10 mm)	15–30 (15 mm)	20–40 (20 mm)	30–60 (30 mm)
Tube size (ml)	1.5	1.5	15	15	15
Volume of Cell Lysis Solution (μl)	300	600	900	1200	1800
Volume of Puregene Proteinase K (μl)	1.5	3	4.5	6	9
Volume of RNase A Solution (μl)	1.5	3	4.5	6	9
Volume of Protein Precipitation Solution (μl)	100	200	300	400	600
Volume of 100% isopropanol (ml)	300	600	900	1200	1800
Volume of 70 % ethanol (ml)	300	600	900	1200	1800
Volume of DNA Hydration Solution (μl)	50	100	150	200	300
Typical DNA yield (μg)	10–75	25–150	35–225	50–300	75–450

See note on other side.

Note: To process samples in 15 ml centrifuge tubes, adapt the centrifugation steps in “Protocol: DNA Purification from Mouse Tail Using the Gentra Puregene Mouse Tail Kit” as follows:

- Centrifuge at 2000 x g for 10 min for the first centrifugation step.
- Centrifuge at 2000 x g for 3 min for the second centrifugation step.
- Centrifuge at 2000 x g for 1 min for the third centrifugation step.

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