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Promega Wizard DNA extraction - Drosophila whole body protocol

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ABSTRACT

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Protocol status: Working We use this protocol and it's working

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Edited version of the 'Promega Wizard Genomic DNA Purification' protocol optimised to work on pooled whole-body fruit fly samples.

Lysis & Incubation

2 5m Use a micro-tube pestle to crush the flies until they are fully ground. 2.1 For the initial crushing, use your hands and the pestle only. Once the flies are partially disintegrated an electronic homogeniser can be used to increase efficiency. Take care not to froth the solution up too much. 3 2m By this point, the solution should be opaque and red-brown in colour. 4 Vortex the homogenised solution then incubate at \$\mathbb{L}\$ 65 °C for 20 minutes . 20m 5 Remove the samples from the heat and lower the set temperature to \$\mathbb{E}\$ 55 °C Allow for the **samples to coo**l for a few moments, then add \bot 17.5 μ L Proteinase K . 2m 6 (This is not included in the Promega Wizard kit).

Vortex the samples throughly then incubate at Vortex the samples regularly throughout this time.

4m

8	Remove the samples from the heat block and allow to cool to room temperature.
9	Add Z 200 µL Protein Precipitation Solution to each sample & vortex for 20 seconds (until thoroughly mixed).
10	Leave the samples On ice for 5 minutes .
11	Centrifuge the samples at high speed: 13200 rpm , for 4 minutes .
12	Carefully transfer the supernatant (liquid) to a new (labelled) micro-centrifuge/Eppendorf tube. Take care not to disturb the pellet.
13	If any tissue or protein precipitate (white mass) remains in the supernatant, repeat steps 11 & 12.
14	Once the supernatant is clear of tissue mass and protein precipitate, add (at room temperature).
	DNA elution and cleansing
15	Gently invert the samples to mix the isopropanol and supernatant.
	White threads of DNA may or may-not form; if no threads are visible after ~5 minutes, continue on with the protocol.

