User-Developed Protocol:

Isolation of genomic DNA from flies using the QIAGEN® Genomic-tip

This procedure has been adapted by customers from the *QIAGEN® Genomic DNA Handbook*, and is for use with QIAGEN Genomic-tip. **It has not been thoroughly tested and optimized by QIAGEN.**

Lysis time will vary depending on the size and density of the source material. The QIAGEN Genomic-tip will run slowly due to the high debris content in the nuclear fraction. The yield is about 0.3–0.4 µg DNA/fly.

Please be sure to read the *QIAGEN Genomic DNA Handbook* and the detailed QIAGEN Sample Preparation and Lysis Protocol carefully before beginning this procedure.

Procedure

1. **Collect 50–100 flies (*Drosophila* sp.) on ice.**
2. **Homogenize flies in 5 ml 0.35 M sucrose, 0.1 M EDTA, and 50 mM Tris pH 8.0.**
3. **Pipet mixture through wide Nitex (mesh 3-300/50).**
4. **Centrifuge flow-through at 4000 rpm for 10 min at 4°C to pellet nuclei.**
5. **Resuspend nuclei in buffer G2 and proceed with the protocol for QIAGEN Genomic-tip 100/G as described in step 7 of the Sample Preparation and Lysis Protocol for Cell Cultures in the *QIAGEN Genomic DNA Handbook*.**
6. **Resuspend the purified DNA pellet in 1 µl TE/fly.**

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Selected handbooks can be downloaded from **www.qiagen.com/literature/handbooks/default.asp**.
Material safety data sheets (MSDS) for any QIAGEN product can be downloaded from **www.qiagen.com/ts/msds.asp**.