User-Developed Protocol:

Isolation of DNA from tofu using the DNeasy® Plant Mini Kit

This procedure has been adapted by customers and is for isolation of DNA from tofu using the DNeasy® Plant Mini Kit. **It has not been thoroughly tested and optimized by QIAGEN.**

Please be sure to read the QIAGEN® *DNeasy Plant Mini Kit and DNeasy Plant Maxi Kit Handbook* carefully before beginning this procedure.

Important note before starting

- All centrifugation steps are carried out at room temperature (15–25°C).
- Proteinase K, needed in step 2 of this procedure, is not supplied in the DNeasy Plant Mini Kit; it can be ordered separately from QIAGEN (cat. no. 19131).

Procedure

1. **Place up to 100 mg tofu in a 1.5 ml microcentrifuge tube.**

   Note: Cut up the tofu into very small pieces, to ensure efficient Proteinase K digestion.

2. **Add 360 µl Buffer AP1 and 40 µl Proteinase K solution (20 mg/ml)*, and vortex vigorously.**

3. **Incubate at 55°C for 3 h*. Vortex the tube occasionally during incubation.**

   OPTIONAL: Add 4 µl RNase A solution (100 mg/ml), and mix. Incubate at room temperature (15–25°C) for 5 min.

4. **Add 130 µl Buffer AP2, and mix.**

5. **Incubate the tube on ice for 5 min.**

6. **Centrifuge at 14,000 rpm (18,000 x *g*) for 5 min.**

7. **Apply the lysate to a QIAshredder™ Spin Column sitting in a 2 ml collection tube, and centrifuge at maximum speed for 2 min.**

8. **Continue with the "Protocol for Isolation of DNA from Plant Tissue with the DNeasy Plant Mini Kit" in the *DNeasy Plant Mini Kit and DNeasy Plant Maxi Kit Handbook*, from step 6.**

** These conditions have not been optimized. The use of less Proteinase K (e.g., 20 µl) or a shorter incubation time (e.g., 1 h) may be sufficient.*

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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**.