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 We use this protocol and it's working

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🌐 *Marchantia* genotyping (quick and dirty genomic DNA extraction)

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ABSTRACT

This protocol allows for quick and dirty genomic DNA extraction. It can easily be used for genotyping with PCR. The quality of the genomic DNA extracted is not suitable for any other application.

MATERIALS

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🔗 KOD Hot Start DNA Polymerase **Millipore Sigma Catalog #71086-3**

- 1 Take small pieces (3x3 mm) of thalli from individual plants and place in a 1.5 mL Eppendorf tube (A in Figure).

- 2 Add 100 µl genotyping buffer (B in Figure).
 - 3 Crush with an autoclaved micro-pestle (C in Figure).
 - 4 Place the tube(s) at 80 °C for 10 min.
 - 5 Add 380 µL of sterile water to each tube (D in Figure).
 - 6 Use 5 µl aliquot of the extract as a template for PCR using preferably the KOD Hot start polymerase.
- Note**
- We found KOD to be more reliable amplifying fragments from a crude genomic DNA extract such as the one used here.
- 7 Check PCR products on a 1.5% (w/v) agarose gel.