

Supplemental Information for:

**Novel Carbon-Fiber Microelectrode Batch Fabrication using a 3D-Printed Mold
and Polyimide Resin**

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Supplemental Information includes additional text describing chemicals, and glass-insulated electrode fabrication.

Supplemental Methods

Chemicals

Dopamine was purchased from Sigma (St. Louis, MO). A 10 mM stock solution was prepared in 0.1 M perchloric acid and diluted daily to the desired concentration in phosphate-buffered saline (PBS) (131.5 mM NaCl, 3.25 mM KCl, 1.2 mM CaCl₂, 1.25 mM NaH₂PO₄, 1.2 mM MgCl₂, and 2.0 mM Na₂SO₄ with the pH adjusted to 7.4). All aqueous solutions were made with deionized water (Millipore, Billerica, MA).

Glass-insulated Electrode fabrication

Glass insulated cylindrical carbon-fiber microelectrodes were made by aspirating a single carbon fiber into a glass capillary (1.2 mm by 0.68 mm, A-M Systems, Inc., Carlsborg, WA). The capillary was pulled to form two electrodes on a vertical pipette puller (Narishige, model PE-21, Tokyo, Japan), and the fiber cut to length.