

Materials List for

Development of a Bio-Hybrid Mosquito Stinger-Based Atomic Force Microscopy Probe

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Citation

Ljubich, N.J., Puma, J., Zhang, Z.X., Li, J., Cao, C. Development of a Bio-Hybrid Mosquito Stinger-Based Atomic Force Microscopy Probe. *J. Vis. Exp.* (206), e66675, doi:10.3791/66675 (2024).

Date Published

April 26, 2024

DOI

10.3791/66675

URL

jove.com/video/66675

Materials

Name	Company	Catalog Number	Comments
5-SA-SE Straight Tapered Ultra Fine-Pointed Tweezers	Excelta	N/A	For manipulating/dissecting the proboscis.
C-4D Probe station	Everbeing Int'l Corp	N/A	Used for AFM assembly.
Tipless Tapping Mode Cantilever	NanoAndMore USA	TL-NCH	AFM cantilever used for mounting the labrum. Specs are shown here: Shape: Beam Force Constant: 42 N/m (10 - 130 N/m) Resonance Frequency: 330 kHz (204 - 497 kHz) Length: 125 μm (115 - 135 μm) Width: 30 μm (22.5 - 37.5 μm) Thickness: 4 μm (3 - 5 μm)
UV Epoxy	Let's resin	ALR00146	For stinger attachment.