

MFP-3D™ Application Kits for AFM Imaging

Asylum Research offers a variety of Application Kits for various AFM imaging modes. These kits provide users with all the accessories needed to successfully perform a specific imaging method. Each kit includes cantilevers specifically suited for the application work, a sample with a reference image, technical notes, and may also include other application-specific items.



DNA Force Curve and Imaging

- 2 bare mica slides
- 1 DNA coated mica slide
- 5 ml of imaging buffer (5mM NiCl₂, 40mM HEPES, pH 6.8 buffer)
- 3 silicon nitride cantilevers, Model TR400PB (use the short, 100µm long cantilever)
- 1ml of DNA solution (1ng/µl) in imaging buffer (Ni₂+ buffer), ready to use.
- 50µl of DNA solution (100ng/µl) in a TE buffer. This buffer will preserve the DNA molecules longer than if they were stored/diluted in the imaging buffer.
- 1 dessicant bag for storage

Phase Imaging

- 10 AC240-TS cantilevers
- 10 AC160-TS cantilevers
- SEBS sample

Spring Constant Calibration

- Cantilever selection of two each, pre-calibrated AC160-TS, AC240-TS and Bio-Levers
- Tungsten spheres for Added Mass method
- Sader Method IGOR software add-on