

**Procedure for Coating Microarray Slides with MCP-2**  
**Rev. 2.2 (for stock solution)**

(Note: surface must contain free hydroxyl groups. A chemical treatment works well: 1N NaOH 1h, rinse with water, 0.1N HCl 30 min., rinse with water, then follow the procedure below. Oxygen plasma treatment for 10 min. is a superior method.)

1. Dilute the MCP-2 stock solution 1:50 with ammonium sulfate (20% of saturation in water; this is about 121.5g ammonium sulfate per L). Vortex to mix.

For example, add 1.225mL of ammonium sulfate solution to 25uL of MCP-2 stock solution to prepare 1.25mL of Coating Solution.

**Prepare Coating Solution immediately prior to use.**

2. Immerse the slides in the solution 30 min. at room temperature.

3. Wash slides individually in a large volume of water. For small numbers of slides, one slide at a time is grasped by forceps and swirled for a few seconds in 1L deionized water.

4. Immediately dry the slide with a stream of nitrogen.

5. Dry the slide at 80C in a vacuum oven for 15 min.

6. Store inside a vacuum-sealed bag, with a desiccant pack or in a desiccator. Store frozen (-80C is preferable). Under these conditions, coated slides are stable for at least 1 year.