TITLE: **MAKING MICROARRAY PRINTING PLATES (IN DMSO)**		PAGE: 1 of 1
SOP #: M003	REVISION LEVEL: 1	EFFECTIVE DATE: 6/21/01
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1. PURPOSE

This protocol describes the method for making microarray printing plates in a 96 well format. (The same procedure applies to a 384 well format as well.)

2. MATERIALS

2.1 Costar 96 well V-bottom plates (Corning; Cat # 3897)
2.2 Costar Corner Notch Lid (Corning; Cat # 3930)
2.3 Dimethyl Sulfoxide (DMSO)

3. PROCEDURE

3.1 Pipette 5 µL of DMSO into the bottom of a Costar V-bottom plate.

3.2 Label the plates according to the orientation the plates will have in the array printer.

Note: TIGR Intelligent Automation Systems (IAS) arrayer hotels hold plates with the A1 short-side facing outward, therefore, that side is the most convenient to have labeled.

3.3 Pipette 5 µL of purified PCR product into the DMSO and mix with pipette.

3.4 Centrifuge at 2700 rpm for 1 minute to make sure the 50% DMSO/ PCR product solution is in the bottom/center of the well where the spotting pins will dip into the well.

3.5 Store in 4^{o} C for a short term storage and -20^{o} C for long term storage.

Note: DMSO has an extremely low evaporation rate therefore sealing the plates with tape is **NOT** necessary. Residual adhesive may complicate lid removal during an array printing.