

THE INSTITUTE FOR GENOMIC RESEARCH
Standard Operating Procedure

TITLE: **MICROARRAY SLIDE STAINING PROCEDURE**

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SOP #: M016

REVISION LEVEL: 0.1

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1. PURPOSE

This protocol describes the staining of microarray slides that have been previously printed with cDNA.

2. SCOPE

This procedural format is utilized by the Pathogen Functional Genomics Resource Center and the Microbial Genomics Department.

3. MATERIALS

- 3.1 Microarray Slides
- 3.2 Syto 61 (Cat# S-11343 , Molecular Probes)
- 3.3 MilliQ water

4. PROCEDURE

4.1 Stain the Slide

- 4.1.1 Fill a Coplin Jar with exactly 50 mL of MilliQ water
- 4.1.2 Add 0.25 μ L of Syto61 dye to the MilliQ water in the Jar. This produces a final dilution of 1:200,000
- 4.1.3 Mix Well
- 4.1.4 Place the slides inside the Coplin Jar
- 4.1.5 Let the slides stain for 3 hours

4.2 Wash and Scan

- 4.2.1 Wash the slides with MilliQ water using frequent water changes for a few minutes.
- 4.2.2 Dry the slides using compressed air or by centrifugation.
- 4.2.3 Scan slides at 532 nm.