

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  $\mu$ 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.