Syto 61 staining of spotted microarrays				
Author(s): Holger Sültmann and Ruprecht Kuner				
Created on: 11.08.2004	Version: 1.0	No.: .2.4.2	Page 1 of 1	

## Material and equipment

- Syto 61 (Molecular probes, S-11343) is a fluorescent compound that binds to both nucleic acids (DNA and RNA). It can be used to determine the presence of DNA on microarrays and test the morphology of the spots.
- Suggested QC: 2 slides from each spotting run (e.g. Slide 18 and 108)
- Options: after spotting or after post-spotting treatment
- Important: Make sure that Syto 61 contaminations of work places/equipment are completely excluded! Work at a dedicated working place in order to prevent such contaminations. After staining: discard gloves!

## Procedure

- 1. Dilute the stain 10.000 fold in 1xTBE buffer (45 mM Tris-borate, 1mM EDTA, pH 8.0)
- 2. Add 50µl diluted Syto61-stain to the slide, use coverslip and incubate at room temperature for 2-3 min
- 3. Remove coverslip and wash the slide 3-4 times with 1x TBE buffer
- 4. Dip the slide in Isopropanol and dry using pressure air
- Scan the microarray with GenePix scanner (PMT voltage settings: 532: 300; 635: 500; 10 μm resolution)

Version	Tracking of changes	Name	Date