

Microarray slide production

Printing oligonucleotides:

1. The 70-mer oligonucleotides are suspended in 3XSSC. The DNA is printed on aminosilane-coated slides (Cell Associates CSA-100 C).

UV-crosslinking and slide storage:

2. The printed slides are laid array-side-up in a Stratalinker (Stratagene, La Jolla, CA) and irradiated at 6000 (x100) μ joules, i.e., 60 mJ.
3. The slides are stored at room temperature under vacuum.

Notes

The 70-mer oligonucleotides are spotted at 22°C and 65-85% relative humidity at ~100 μ m center-spacing using a high-speed robotic machine (OmniGrid-100 model; GeneMachines; San Carlos, CA) using Stealth pins (SMP3 pins) from Telechem (Sunnyvale, CA) mounted in a 48-pin head. Spot volumes are 0.5 nl and spot diameters are 75-85 μ m.