



Appendix B

Scanner Specifications:

Standard Glass Slide:	1" x 3" (25 mm x 75 mm) microscope slides
Thickness:	1 mm
Light and Detector Orientation:	Facing array
Scanned Area:	22 mm x 73 mm
Focus:	Auto focus or adjustable (+/- 200 μ m)
Excitation:	FITC (Blue) Channel 488 nm Cy3 (Green) Channel 532 nm Cy5 (Red) Channel 633 nm
Resolution:	10 μ m
Dynamic Range:	>3 orders of magnitude
Detection Output:	16-bit TIFF

Recommended Scanners:

- InnoScan 710/900/1100 Microarray Scanner (Innopsys)
- GenePix[®] 4000A/B (Molecular Devices)
- GenePix[®] 4100A (Molecular Devices)
- GenePix[®] Professional 4200A (Molecular Devices)
- ScanArray[®] Express (PerkinElmer)
- ScanArray[®] Express HT (PerkinElmer)
- ScanArray[®] 4000 (PerkinElmer)
- ScanArray[®] 4000XL (PerkinElmer)
- ScanArray[®] 5000 (PerkinElmer)
- ScanArray[®] 5000XL (PerkinElmer)
- LS Series Laser Scanner (Tecan Group AG)
- AlphaScan Microarray Scanner (Alpha Innotech)
- aQuire 110 V (Genetix)
- aQuire 240 V (Genetix)
- VersArray ChipReader 5 μ m System (Bio-Rad)
- VersArray ChipReader 3 μ m System (Bio-Rad)

Note: This is not the full list of microarray scanners available. Please check scanner specifications in relation to excitation/emission range, slide size and scanning resolution. Scanning resolution >10 μ m may result in low signal intensities.