

Microarray Scanner Validation Slide

Catalog Number: SCV 01

Description

FMB Microarray Scanner Validation Slide is designed for general validation and evaluation of microarray scanners. This Validation Slide also operates as a demonstration slide, a useful tool for demonstrating the overall performances and functions of microarray scanners.

The slide contains arrays that produce exceptional signals of Cy3 and Cy5 fluorescent dyes in dilutions series. The arrays consist of 2 identical blocks of 29 unique samples printed in 29 columns, and each column contains 12 repeats of each sample.

Specification

- Slide size: 76±0.3mm x 25±0.3mm x 1.0±0.02mm
- Array dimensions: 2 identical blocks; each block contains 29 columns x 12 rows
- Array Layout: see layout page
- Spot center-to-center distance: 300um

Precautions

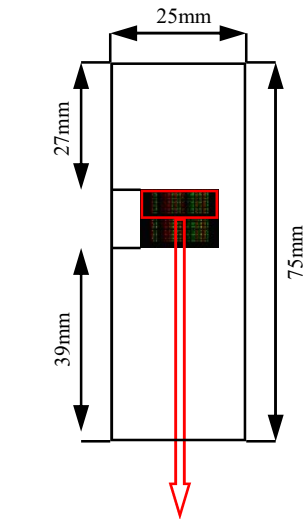
Handling

Handle the slide by holding the slide's edges or the area with bar-code labels. Do not touch the slide surfaces. Do not attempt to clean or wash the slide with any chemical. If dust particles are found on the slide surface, clean the surface by blowing a gentle stream of compressed nitrogen (industrial grade or above) with a pressure of 20psi or under. Do not use compressed air dust-ers. When finished with each scan, keep the slide in a box so that it is protected from light and dusts.

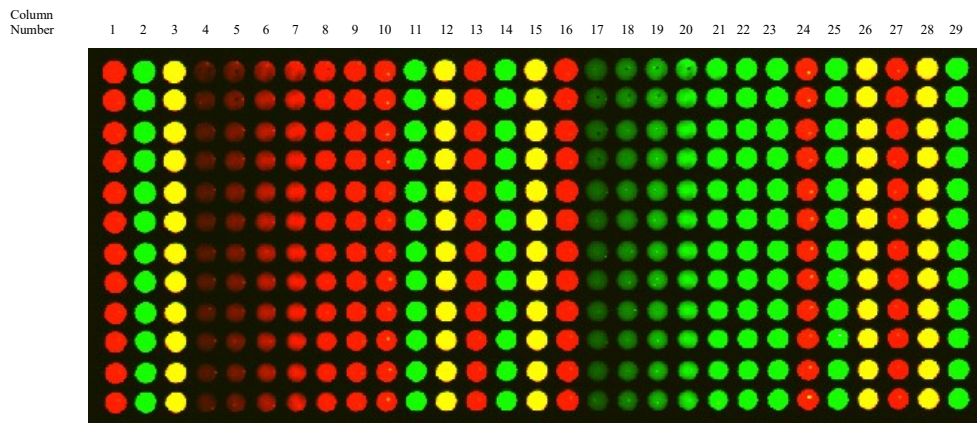
Storage

The slides are individually packaged in air and moisture resistant foil bags, and protected from light. Once opened, the slides should be kept away from light. When not in use, please store the slides desiccated in the dark.

Array Layout



Array Components	Location — Column Number
Cy3 and Cy5 mixture	3, 12, 15, 26, 28
Cy3 only	2, 11, 14, 25, 29 17 — 23 in two-fold dilutions
Cy5 only	1, 13, 16, 24, 27 4 — 10 in two-fold dilutions



Suggested Applications

- General evaluation of:
 - Laser responses
 - PMT responses
 - Laser filters
 - Laser focus and alignment
 - Channel-to-channel cross-talk
- Detecting and analyzing performance variations in different microarray scanner units
- To function as a demo slide during microarray scanner demonstration sessions

Instructions

1. Load the slide on a microarray scanner's slide holder/cartridge.
2. Perform a quick scan to locate the arrays on the slide.
3. Adjust appropriate settings and parameters on the scanner, and proceed to scan the arrays for applications of your interests and perform necessary analyses.