

**Microfluidic Bonding Evaluation Rating Sheet** 1 = Poor Match >>> 5 = Excellent Match

| Characteristics Impacted by Bonding Method | Method 1 | Method 2 | Method 3 |
|--|----------|----------|----------|
| Biocompatibility                           |          |          |          |
| Channel/Layer Alignment                    |          |          |          |
| Channel & Cavity Sensitivity               |          |          |          |
| Cycle Speed/Scalability                    |          |          |          |
| Detection Method Used                      |          |          |          |
| Dimensional Requirements                   |          |          |          |
| Material Compatibility                     |          |          |          |
| On-Chip Storage                            |          |          |          |
| Contact Angle Fluidics                     |          |          |          |
| Operating Environment                      |          |          |          |
| Optical Requirements                       |          |          |          |
| Overall Cost                               |          |          |          |
| Process Compatibility                      |          |          |          |
| Shelf Life                                 |          |          |          |
| Surface Roughness                          |          |          |          |
| Thermal Performance                        |          |          |          |
| Tolerances                                 |          |          |          |
| <b>TOTAL SCORE &gt;&gt;&gt;</b>            |          |          |          |