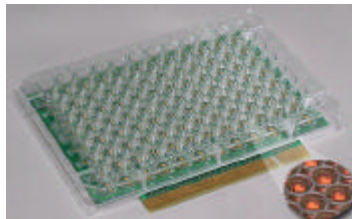
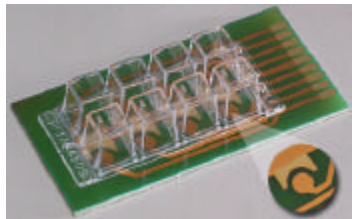


Applied Biophysics Culture Ware (Please contact us for custom units)



96W1E

Each of the 96 wells in a standard plate configuration contains a single 250 micrometer diameter circular measuring electrode. This array has been designed for high throughput and performs in a manner identical to the 8W1E standard array. The array is opaque.



8W1E PCB & 8W10E PCB

Similar to the standard 8W1E and 8W10E but using printed circuit board as a base layer. All surfaces are compatible with cell culture as in the standard array. This economy array is opaque and optical cell observations are limited to reflection microscopy (upper wells can be removed following ECIS measurements).



8W1E DD*

This is nearly identical to the 8W1E standard array but the active electrodes come in four different diameters (two wells of each size). Diameters are 250 (standard), 100, 50 and 25 micrometers. For applications where one wishes to monitor fewer cells with high sensitivity. Please contact us if you have questions.



8W2x1E* (Medusa)

This array has 8 individual wells, but each well has two independent standard measuring electrodes. This allows researchers to have duplicate measurements within a single well. Since each electrode is individually addressable, one could, for example, electroporate or wound cells on one electrode using the other as a control. When connected to the array holder only the upper four wells are measured. To later use the other four wells, the array is turned around and the contact pads at the other end are now used.



8WChemoTaxis*

The array that is used in chemotaxis measurements first described by Hadjout, et al in *Biotechniques*, 3(5): 1130-1138 (2001). The measuring electrode in this case is a thin gold line between two registry marks.



ECIS Flow array*

A specialized array with 8 active ECIS electrodes located in the central region at the base of a flow channel measuring 50 mm long, 5 mm in width and 0.4 mm in height. Useful for ECIS measurements of cells under perfused conditions or in high shear stress environments.



8W1E*

Each of the 8 wells contains a single 250 micron diameter circular measuring electrode. Potential uses include:

- Cell migration measurements via automated wound healing.
- Studying effects of agents upon cell morphology and cell motions (micromotion).
- Exceptional signal to noise ratio allows studies of very sparse cultures (including single cells).



8W10E*

Each of the 8 wells contains ten 250 micrometer diameter measuring electrodes connected in parallel (on a common gold pad). Potential uses include:

- Recording the activities of more cells over a larger region of the substrate.
- Studying the effects of agents upon overall impedance.
- Reducing fluctuations in impedance due to micromotion that may interfere with some assays.