Supporting Information

Efficient Immobilization of Enzyme and Substrate for Single-Step Caspase-3 Inhibitor Assay Using Combinable PDMS Capillary Sensor Array

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Effect of glutaraldehyde (GA) on the activity of immobilized caspase-3

To clarify the effect of GA on the activity of immobilized caspase-3, the following experiment was carried out. First, the PEG solution containing caspase-3 (0.2 µM) was introduced into two PDMS channels. After drying, GA solution (2.5%) was introduced into one of the two channels. Following the drying process, two PDMS channels had equal amounts of immobilized caspase-3; however, one of them also contained GA. After solutions of fluorescent substrate (10⁻⁴ M) were introduced into both channels, the fluorescence response of the channel containing GA was weaker, indicating that GA inhibited the caspase-3 activity.

Method

![Method Diagram]

Result

![Result Graph]

*Fig. SI: Effect of GA on caspase-3 activity*