

Comparison of the Detection Sensitivity between Angular Interrogation- and Intensity Measurement-Based SPR Biosensors

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Abstract

SPR biosensors are classified into angular interrogation, wavelength interrogation and intensity measurement by detection methods.¹⁾ Angular interrogation is most widely used in the SPR biosensor due to high sensitivity.¹⁾ Intensity measurement-based SPR is used for analysis of two dimensional surface (ex. SPR imaging system).²⁻⁴⁾ In this study, the detection sensitivity of SPR biosensor was compared between the angular interrogation and the intensity measurement. As a model experiment, we used the interaction of concanavalin A (Con A) and dextran.

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