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Technical Editing

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Examination of Absorptiometry Microchip Application Aiming for Particle-Enhanced Turbidimetric Immunoassay

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(Received December 2, 2008)
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Abstract: In this paper, newly application of the absorptiometry microchip was considered and sensor property was characterized with real sample. C-reactive protein (CRP) measurement, that is one of the items of serology test, was chosen as first application. CRP value is very useful marker of irritation and also appropriate to confirm ability of sensor performance for Particle-Enhanced Turbidimetric Immunoassay (PETIA). Fabricated microchip shows characteristics equivalent to commercially available sensor unit. Sensor property with different concentration samples was also evaluated. Temperature effect for PETIA was described with characterized data. From the results of characterization and discussion, the microchip can be applicable for CRP measurement with PETIA.

Errors corrected *in situ*

Examination of an Absorptiometry Microchip Application Aiming for Particle-Enhanced Turbidimetric Immunoassay

[REDACTED] 1)2) [REDACTED] 3), [REDACTED] 3),
[REDACTED] 4), [REDACTED] 4), [REDACTED] 1)2), [REDACTED] 1)2)3) and
[REDACTED] 1)2)3)

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Abstract: In this paper a new application of the absorptiometry microchip is considered and its sensor property characterized with a field sample. The C-reactive protein (CRP) measurement, one of the items of serology tests, was chosen as the first application. A CRP value is a very useful marker of irritation and is also an appropriate confirmation of sensor performance within a Particle-Enhanced Turbidimetric Immunoassay (PETIA). The fabricated microchip shows characteristics equivalent to a commercially available sensor unit. Sensor properties across different sample concentrations were also evaluated. The temperature effects during PETIA were described via characterization data. From the results of these characterizations, and discussion, the microchip is seen to be applicable to CRP measurement with PETIA.

Document rewritten

Examination of an Absorptiometry Microchip Application Aiming for Particle-Enhanced Turbidimetric Immunoassay

[REDACTED] 1)2) [REDACTED] 3), [REDACTED] 3),
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Abstract: In this paper a new application of an absorptiometry microchip is considered and an empirical characterization of the microchip's sensor property reported. The absorptiometry microchip was evaluated on the C-Reactive Protein (CRP) measurement and found to have characteristics equivalent to commercially available sensor units. The CRP evaluation, part of a standard serology test and a useful measurement of irritation, is also one measure within any Particle-Enhanced Turbidimetric Immunoassay (PETIA) examination. The absorptiometry microchip was further tested over a range of sample concentrations, its distinctive sensor qualities determined, and the microchip's temperature sensitivity within the PETIA environment characterised. The results show that the absorptiometry microchip is an appropriate CRP measurement tool for PETIA studies.