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Errors marked

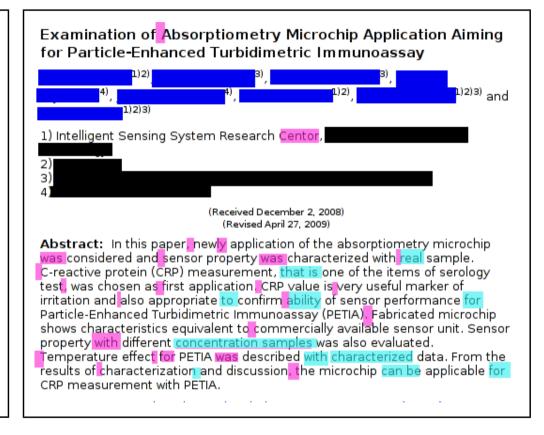
Errors marked 6 Yen per word or Errors detailed 8 Yen per word or Errors corrected *in situ* 8 Yen per word or Document rewritten 12 Yen per word. Document drafted from notes 14 Yen per word.

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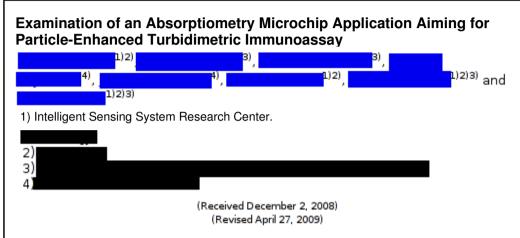


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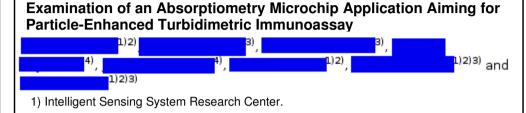


Errors corrected in situ

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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.





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.

(Revised April 27, 2009)