Journal of Molecular Biomarkers & Diagnosis

Rijkers, et al., J Mol Biomark Diagn 2014, 6:1 DOI: 10.4172/2155-9929.1000I102

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Determination of Pneumococcal Antibodies in Serum with Multiplex Technology

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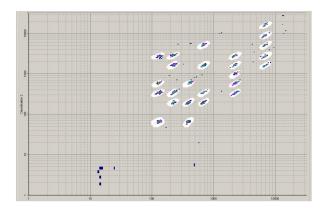
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Rec date: Oct 30, 2014; Acc date: Oct 31, 2014; Pub date: Nov 03, 2014

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Description

Determination of pneumococcal antibodies in serum with multiplex technology. *Streptococcus pneumoniae*, the primary causative agent of pneumonia and otitis media, occurs in 92 different serotypes. The serotype is defined by the structure of the capsular polysaccharide.



In the Laboratory of Medicial Microbology and Immunology of the St. Antonius Hospital in Nieuwegein, The Netherlands, we have developed a multiplex assay, enabling the simultaneous measurement of antibodies against the 25 most prevalent pneumococcal serotypes. The assay reuires only small amounts of blood (50 microliter) and therefore can be used for all patients, including babies. Shown is a screen-shot of an analysis using Luminex software, indicating the positioning of the 25 gates for the beads coupled with 25 different serotypes.