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Chimeric Protein-LAG and Streptococcal protein G sandwich ELISA

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Carbon

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ABSTRACT

This ELISA was used to study the interactions between protein-LAG (PLAG) and streptococcal protein-G (SpG) with different immunoglobulin preparations of mammalian and avian species.

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- 1 This ELISA was used to study the interactions between protein-LAG (PLAG) and streptococcal protein-G (SpG) with different immunoglobulin preparations of mammalian and avian species. The 96 well microtiter plate was coated overnight at 4°C with 2 µg/µl per well of PLAG in carbonate-bicarbonate buffer pH 9.6.
- 2 The plate was then treated with bovine serum albumin solution and washed 4X with PBS-Tween. 50 µl of immunoglobulins (1 mg/ml) is added and incubated for 1h at room temperature, and the microplate is rewashed 4X with PBS-Tween.

- 3 Then, 50 μ L of peroxidase-labeled SpG conjugate diluted 1:5000 in PBS-non-fat milk was added to each well and incubated for 1 h at RT. The plate was washed 4X with PBS-Tween.
- 4 Then, 50 μ L of o-phenylenediamine solution (4 mg/mL) was added, and the plate was incubated for 15 min at RT in the dark. The reaction was stopped with 50 μ L of a 3M H₂SO₄ solution.
- 5 The plate was visually assessed for color development and read on a microplate reader at 492 nm. A cut-off point was calculated as the mean of the optical density of the negative controls multiplied by two. The cut-off value was set to 0.30.