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Chimeric Protein-LG and Protein-LAG sandwich ELISA

Angel A Justiz-Vaillant[1]

[1]University of the West Indies St. Augustine

1 Works for me dx.doi.org/10.17504/protocols.io.bta8nihw

Carbon

Angel Justiz-Vaillant
University of the West Indies St. Augustine

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ABSTRACT

This ELISA is used to study the interactions between protein-LG (SpLG) and protein-LAG (PLAG) with different immunoglobulin preparations from mammals and avian species.

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1 This ELISA is used to study the interactions between protein-LG (SpLG) and protein-LAG (PLAG) with different immunoglobulin preparations from mammals and avian species. The 96 well microtiter plate was coated overnight at 4°C with 2 µg/µl per well of SpLG 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 µL of peroxidase-labeled PLAG conjugate diluted 1:5000 in PBS-non-fat milk was added to each well and incubated for 1h at RT. The plate was washed 4X with PBS-Tween.

4 Then, 50 µL of o-phenylenediamine solution (4 mg/mL) was added, and the plate was incubated for 15 min at RT in the dark.

5 The reaction was stopped with 50 µL of a 3M H2SO4 solution. 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 0.32.

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