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 We use this protocol and it's working

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🌐 Universal sandwich ELISA for investigating the binding of Protein L to avian immunoglobulins using anti-IgY-peroxidase as conjugate.

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MATERIALS

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⊗ Anti-Chicken IgY, HRP Conjugate, 300ul **Promega Catalog #G1351**

⊗ Nunc™ 96-Well Polystyrene Round Bottom Microwell Plates, V 96 well plate, Non-Treated, clear, without lid, Sterile **Thermo Fisher Catalog #260210**

⊗ Protein-L from P. Magnus **Contributed by users**

This ELISA is used to study the interaction of recombinant protein-L (SpL) with diverse avian

- 1 immunoglobulins.
- 2 The 96 well microtitre plate is coated overnight at 4°C with 2 µg/µl per well of SpL in carbonate-bicarbonate buffer pH 9.6.
- 3 Then plate is treated with bovine serum albumin solution and washed 4X with PBS-Tween.
- 4 50 µl of avian egg yolk or egg white (1 mg/ml) is added and incubated for 1.30h at room temperature and the microplate is then rewashed 4X with PBS-Tween.
- 5 Then 50 µl of peroxidase-labeled-anti-IgY conjugate diluted 1:15000 in PBS-non-fat milk is added to each well and incubated for 1.30h at RT. The plate is washed 4X with PBS-Tween.
- 6 Pipette 50 µl of 3,3',5,5' - tetramethylbenzidine (TMB; Sigma-Aldrich) to each well.
- 7 The reaction is stopped with 50 µl of 3M H₂SO₄ solution.
- 8 The plate is visually assessed for the development of colour and read in a microplate reader at 450 nm.
- 9 A cut-off point should be calculated as the mean of the optical density of negative controls x 3. The higher the OD value the higher will be the affinity of SpL to avian immunoglobulins.