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© Universal sandwich ELISA for investigating the binding of avian immunoglobulins to Staphylococcal protein-A (SpA) using anti-IgY-peroxidase conjugate.

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MATERIALS

NAME	CATALOG #	VENDOR
Anti-Chicken IgY, HRP Conjugate, 300ul	G1351	Promega
Nunc™ 96-Well Polystyrene Round Bottom Microwell Plates, V 96 well plate, Non-Treated, clear, without lid, Sterile	260210	Thermo Fisher
Stanhylococcal Protein-A		Sigma Aldrich

- 1 This ELISA is used to study the interaction of Staphylococcal protein-A (SpA) with diverse avian immunoglobulins.
- The 96 well microtitre plate is coated overnight at 4° C with $2 \mu g/\mu l$ per well of SpA in carbonate-bicarbonate buffer pH 9.6.

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3	Then plate is treated with bovine serum albumin solution and washed 4X with PBS-Tween.
4	$50\mu l$ 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 μ l of peroxidase-labeled-anti-lgY 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 SpA to avian immunoglobulins.