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Universal sandwich enzyme linked immunosorbent assay for investigating Staphylococcal protein-A (SpA) interactions with immunoglobulins using a SpLG-HRP

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	s used to study the interaction of Staphylococcal protein-A (SpA) with different immunoglobulin s from mammalian species.
The 96 well 1	microtitre plate is coated overnight at 4°C with 2 μg/μl per well of SpA in carbonate-bicarbonate buffer pH

Then plate is treated with bovine serum albumin solution and washed 4X with PBS-Tween.

50 µl of animal serum (1 mg/ml) is added and incubated for 1h at room temperature and the microplate is rewashed 4X with PBS-Tween.

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5	Then 50 μ l of peroxidase-labeled SpA conjugate diluted 1:5000 in PBS-non-fat milk is added to each well and incubated for 1h at RT. The plate is washed 4X with PBS-Tween.
6	$50~\mu l$ of 4 mg/ml o-phenylenediamine solution (OPD) is added and the plate is incubated 15 minutes at RT in the dark.

The reaction is stopped with $50 \mu l$ of 3M H2SO4 solution.

- 8 The plate is visually assessed for the development of colour and read in a microplate reader at 492 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 mammalian immunoglobulins.