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4X with PBS-Tween.

Universal sandwich enzyme linked immunosorbent assay for investigating immunoglobulin-binding protein (IBP) interactions using a conjugate SpAG-HRP.

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 $50 \,\mu l$ of animal serum (1 mg/ml) is added and incubated for 1h at room temperature and the microplate is rewashed

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5	Then 50 μ l of peroxidase-labeled SpAG 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 μl of 4 mg/ml o-phenylenediamine solution (OPD) is added and the plate is incubated 15 minutes at RT in the dark.

- 7 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.
- 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 mammalian immunoglobulins.