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Enzyme linked immunosorbent assay for investigating the binding of protein-LA (SpLA) to immunoglobulins.

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ABSTRACT

This SpL ELISA can be used to detect specific antibodies in various animal species including human, mouse, rat, dog, rabbit, chicken, monkey, pig and hamster [1].

1. De Chateau M, Nilson BH, Erntell M, Myhre E, Magnusson CG, Akerstrom B et al. On the interaction between protein L and immunoglobulins of various mammalian species. Scand J Immunol 1993; 37: 399–405

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- 1 This ELISA is used to study the interaction of recombinant protein LA (SpLA) with different immunoglobulin preparations.
- 2 The 96 well microtitre plate is coated overnight at 4°C with 2 µg/µl per well of SpLA 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 animal serum (1 mg/ml) is added and incubated for 1 h at room temperature and the microplate is rewashed 4X with PBS-Tween.
- 5 Then 50 µl of peroxidase-labeled SpLA conjugate diluted 1:5000 in PBS-non-fat milk is added to each well and incubated for 1 h 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 µl 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 the affinity of SpLA to immunoglobulin G.