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ELISA for quantification of human C6 in serum or plasma.

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- 1 An anti-human C6 coating antibody is adsorbed onto the microwells by incubation overnight at 4°C with carbonate-bicarbonate buffer.
- 2 Add 50 µl of human serum or plasma. Human C6 present in the serum or plasma binds to antibodies adsorbed into the microwells.
- 3 The microplate is blocked with 3% non-fat milk-PBS buffer and later wash to remove unbound proteins.
- 4 Fifty (50) µl of biotin-conjugated anti-C6 antibody is added. The optimal dilution must be investigated.
- 5 The microplate is rewashed with PBS-Tween 20 buffer, pH 7.4.

- 6 One hundred μl of streptavidin-HRP conjugate is added and it binds to the biotin-conjugated anti-C6 antibody. The optimal dilution of this conjugate must be investigated.
- 7 The plate is washed following incubation to remove the unbound Streptavidin-HRP.
- 8 Add 100 μl of 3,3',5,5'- tetramethylbenzidine (TMB; Sigma-Aldrich) into each well.
- 9 Incubate the microwells in the dark for 15 min.
- 10 A colored product is formed in proportion to the quantity of C6 present in the sample or standard.
- 11 The reaction is terminated by addition of 100 μl 3M H_2SO_4 and the absorbance is measured at 450 nm.
- 12 A standard curve is made from 7 human C6 standard dilutions and the human C6 sample concentration is determined.