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## © ELISA for quantification of human C5 in serum or plasma.

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- 1 An anti-human C5 coating antibody is adsorbed onto the microwells by incubation overnight at 4°C with carbonatebicarbonate buffer.
- 2 Add 50 µl of human serum or plasma. Human C5 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-C5 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 µI of streptavidin-HRP conjugate is added and it binds to the biotin-conjugated anti-C5 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 20 min.
10	A colored product is formed in proportion to the quantity of C5 present in the sample or standard.
11	The reaction is terminated by addition of 100 $\mu l3MH2SO4$ and the absorbance is measured at 450 nm.
12	A standard curve is made from 7 human C5 standard dilutions and the human C5 sample concentration is determined.