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© ELISA for quantification of human C9 in serum or plasma.

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- An anti-human C9 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 C9 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-C9 antibody is added. The optimal dilution must be investigated.
- 5 The microplate is rewashed with PBS-Tween 20 buffer, pH 7.4.

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| 6 | One hundred μ I of streptavidin-HRP conjugate is added and it binds to the biotin-conjugated anti-C9 antibody. The optimal dilution of this conjugate must be investigated. |
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| 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 C9 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 C9 standard dilutions and the human C9 sample concentration is determined. |