Determination of IgM concentration by the Mancini test.

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1 An appropriate anti-IgM antiserum (antibody) is poured in the center well of an agar-containing plate.

2 Carefully circular wells are cut and detached from the plates.

3 A series of standards containing known concentrations of IgM are placed in separate wells, while “unknown” human serum samples and control are placed in other wells.

4 A ring of precipitate forms in the area of optimal antigen-antibody concentration, meaning anti-IgM - IgM reaction as the antigen diffuses radially.

5 The diameters of the rings are measured and perceived normally in 48-72 hours.

6 Finally, a standard curve is developed using the ring diameters of the standards versus the concentrations.

7 A curve is then used to plot the concentration of the control and unknown IgM samples.

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