

Characterization of the second antibody for radioimmunoassay (RIA) produced at IPEN-CNEN/SP (sheep anti-rabbit gamma globulin).

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The aim of this work is to characterize the second antibody produced at IPEN-CNEN/SP for RIA use (II Congreso Latinoamericano de Biotecnología, Cuba, 1990). Four sheeps immunized with the rabbit immunoglobulin (IgG) prepared at our laboratory developed antiserum with titer similar to that exhibited by a reference antiserum produced in goat (RSL, USA) even presenting higher values. Throughout the immunization period two large volume of blood were taken (1.5 l) and the antisera evaluated for their precipitation characteristics in a RIA of thyrotrophin. The presence of smaller quantity of carrier nonimmune serum allowed the use of higher dilutions of two antisera. Similarly to the RSL antiserum, maximum precipitation was achieved after 1 hour of incubation at 40C. Crossreactivity to human IgG was not observed by immunodiffusion.

The suitability of those antisera for RIA suggests the possibility of the IPEN-CNEN/SP to start its production in large scale in order to replace importations.

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