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One of the clinical uses of immunoprecipitation is to detect virus protein in some virus disease such as HIV type 1.

Radioimmunoprecipitation is a developed test of immunoprecipitation that is used to detect and determine antibodies of glycoprotein gp 120 of the human immunodeficiency virus (HIV-1). The test, which used recombinant gp120 " was quantitative, reproducible, and specific for antibodies to rgp120 or antibodies to native gp120 resulting from natural infection with HIV" (Baxter CG, et al. 2013).

At a final concentration of 10% to accumulate immune complexes used Polyethylene glycol-8000 (PEG), and showed to be active in titrating sera. (Baxter CG, et al. 2013) The samples should be diluted minimum at 1: 100, Classical dilution method or "calibration curve prepared with a positive serum" (Baxter CG, et al. 2013) by interpolation can determine the antibody titers.

The reaction gained in a commercial HIV immunoblot test is linked to radioimmunoprecipitation titers of human HIV sera. The advantages of the test is fast "turnaround" (Baxter CG, et al. 2013) quantitative and "versatility" (Baxter CG, et al. 2013).

(Baxter CG, et al. 2013) Prion disease is a fatal neurodegenerative condition. Is linked to the brain which is formed by abnormal cellular protein form or 'rogue', which is called prion protein. This abnormality protein affects the shape of prion protein. This test detects the prion protein in the plasma (blood component). (Christina D. Orrú, et al.

2011). Despite blood contains inhibitor and very low concentration of prion, so to separate prions from inhibitors in plasma samples and raise sensitivity, immunoprecipitation with quaking-induced conversion (QuIC) integrate antibody 15B3. Quaking-induced conversion can be as sensitive as in vivo bioassays but it is a very fast, higher production and does not cost.

(Christina D. Orrú, et al. 2011). This test can detect prion from plasma sample on 15B3 bead by preincubation of the prion-bound beads for 20 minute at the room temperature, Sarkosyl wash of the beads and speed up prion amplification.

(Christina D. Orrú, et al. 2011).

The combination of immunoprecipitation and quaking-induced conversion(QuIC) significantly promote detection of different brain tissue diluted into human plasma.(Christina D. Orrú, et al. 2011).