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Immunoblot analysis for immunodetection of HIV proteins.

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We use this protocol and it's working

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Abstract

Enzyme-Linked Immunosorbent Assay (ELISA) was used for screening while the Western Blot was used for confirmation.

Troubleshooting

- 1 Aliquots of 3-5 μ l of the serum are applied to the gel and run on a protein electrophoresis (SDS-PAGE).
- 2 Gels are transferred to nitrocellulose membranes (Immobilon-Nc, pore size 0.45 μ m, during 75 min at 40 mAmps using a semi-dry electroblotter, HEP-1 Model, Owl Scientific Inc).
- 3 The running buffer contains 25mM Tris, 192mM glycine pH 8.3 and 20% methanol.
- 4 The nitrocellulose membranes are blocked overnight in 10% nonfat skim milk in PBS with 0.05% Tween-20 pH 7.4 and then washed 4 times for 10 minutes with PBS-Tween 20.
- 5 Peroxidase-labeled anti-HIV conjugate are added and incubated at 4°C overnight.
- 6 Membranes are washed as above and then tetra-methyl-benzidine are added and the reaction is stopped with deionised water.
- 7 A positive test displays two or more HIV proteins.
- 8 Only patients with positive confirmatory tests are classified as HIV positive.