

The invention relates to medicine, in particular to a method for identifying a marker of hemotransmissible infection caused by cytomegalovirus and can be used for laboratory diagnosis for scientific or practical purposes.

Summary of the invention consists in carrying out the immunoenzyme test with identification of anti-CMV IgG marker, and for doubtful results, a test is carried out, including the development of a control reagent, containing negative anti-CMV IgG serum and a neutralizing control, containing positive anti-CMV IgG serum, then is used a plate with wells for anti-CMV IgG, into which reagents are added: 100 µl of control reagent is added into well A1, 100 µl of neutralizing control is added into well B1, 50 µl of diluted test serum (100 µl of sample diluent containing tris buffer, 0.1% Procline 300 and 5 µl of test serum) and 50 µl of control reagent is added into wells C1, E1 and G1, and 50 µl of test serum diluted in a ratio of 1:20 and 50 µl of neutralizing control is added into wells D1, F1 and H, then the samples are incubated at 37°C, for 30 min, after which all wells are washed 5 times with buffer solution, containing Tris-HCl buffer, 0.5% Tween 20 and 0.1% Procline 300 and diluted with distilled water in a ratio of 1:25, then into all wells, except A1, is added 100 µl of conjugated enzyme, containing anti-human immunoglobulin IgG and peroxidase, thereafter are incubated at 37°C, for 30 min, then all wells are re-washed 5 times with buffer solution and is added 50 µl of chromogen, containing citrate phosphate buffer solution, hydrogen peroxide and 50 µl of substrate, containing tetramethylbenzidine buffer solution and are incubated at 37°C, for 10 min, after which the reaction is stopped by adding 100 µl of 0.5 M sulfuric acid, then are determined the optical density values at a wavelength of 450/620 nm and is calculated by the formula: control reagent/neutralizing control for anti-CMV IgG, if the ratio is less than 2.0 is determined a negative result, and if greater than 2.0 - a positive result.

Claims: 1