

Application of ECCLS guidelines to the analysis of Toxoplasma IgG and Rubella IgG using laboratory kits based on the Meia method.

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Authors: CAP Bon Pastor, Servei d' anàlisis clíniques, Barcelona, Spain.

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The Meia method is an enzyme-immunoassay involving fluorometric detection, which is used in the Abbott IMx automatic analyzer. The purpose of this report was to analyse the Meia Toxoplasma gondii IgG antibody and Rubella IgG antibody assays, following ECCLS guidelines for the analysis of laboratory kits. The results showed that between-run imprecision for Rubella IgG was close to 15%; for Toxoplasma IgG the percentage was 13%. The mean recovery for Rubella IgG was 104% and 94% for Toxoplasma IgG. The carry-over for Rubella IgG was 0.64% and 0.26% for Toxoplasma IgG which, in both cases, was less than the analytical variability. Both Meia and Elisa showed a linear relationship in the analytical range of the method. Comparing Meia with the Elisa method, constant and proportional differences were found for IgG Rubella and proportional differences for IgG Toxoplasma. The Meia method has many positive analytical features to recommend and it can easily be used in a multidisciplinary laboratory, needing only a small number of serum samples.