CONCLUSIONS

Performance of the new SENTINEL Syphilis assay on Vitros® 5600 Integrated System was always in accordance with general chemistry on a single high volume chemistry System. Syphilis TP Latex on Vitros® 5600 Integrated System meets the requirements for its use as a screening tool in blood bank, allowing consolidation with general chemistry on a single high volume chemistry System. SENTINEL Syphilis assay on Vitros® 5600 Integrated System is a rapid-access assay.

BIBLIOGRAPHY


Abstract (revised)

Introduction

Syphilis is a sexually transmitted disease caused by the spirochetal bacterium Treponema pallidum subspecies pallidum. The route of transmission of syphilis is almost always through sexual contact, although there are examples of congenital syphilis via transmission from mother to child in utero. The serologic tests for syphilis infection have been performed manually, but the procedures are time-consuming and interpretations may be subjective. Recently, automated assays were developed for rapid and efficient detection of syphilis infection.

This assay is an optical measuring method using latex agglutination method. Treponema pallidum (Nichols strain) is fixed on the surface of polystyrene latex particles which agglutinates by an antigen-antibody reaction when anti-TP antibodies exist in the specimen. When this agglutination is measured as a change in absorbance, the amount of change depends on the value of antibodies. Based on this principle, this reagent serves to prepare a calibration curve and to precalculate the level of known antigen by measuring the absorbance of anti-TP antibody in specimen. When measurements are performed this reagent show 10 U or more, the results are considered to be positive.

Matters and materials

Vitro® 5600 Integrated System is a random-access analyzer. SYRPHUS TP Latex is a new immunodiagnostic assay, manufactured by SENTINEL CH SPA, using microparticles coated with Treponema pallidum fixed on the surface of polystyrene latex particles which agglutinates by an antigen-antibody reaction when anti-TP antibody exists in the specimen.

RESULTS

ON BOARD CALIBRATION STABILITY

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