Quantitative Dot Blot Assays to determine Vibrio cholerae O1 Lipopolysaccharide concentration using Monoclonal Antibody

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Introduction: Rapid diagnosis is fundamental for epidemiological control of Cholera disease. Contradictorily the gold standard test (stool culture) takes several days. Finlay Vaccine Institute obtained an Immunoagglutination test for rapid diagnosis of Cholera (FCIT), based on a monoclonal antibody anti-LPS O1 coupled to latex particles. FCIT, includes a positive ...

Determination of Magnesium in Blood Serum by Using Carbon Paste Ion Selective Electrode Based on Multi-Walled Carbon Nanotubes and Nano Silicon

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The number of trace metallic elements of biological importance is increasing and a wide range of elements need to be analyzed in blood, urine and tissues. There is often a natural limitation of sample volume particularly in the analysis of blood and tissue digest samples. ...

A Comparative Computational and Experimental Study on Different Vibrational
Biospectroscopy Methods, Techniques and Applications for Human Cancer Cells in Tumor Tissues Simulation, Modeling, Research, Diagnosis and Treatment

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In the current image article, we present different computational and experimental vibrational biospectroscopy methods and techniques such as Fourier Transform–Near–Infrared (FT–NIR), Fourier Transform–Short–Wavelength Infrared (FT–SIR), Fourier Transform–Mid–Wavelength Infrared (FT–MIR), Fourier Transform–Long–Wavelength Infrared (FT–LIR), Fourier Transform–Far–Infra ...