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. ...
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–Infrared (FT–FIR), and others. These methods and techniques are crucial for understanding the molecular and cellular properties of human cancer cells in tumor tissues, thereby facilitating simulation, modeling, research, diagnosis, and treatment of various types of cancer.

Vitamins play a pivotal role in reducing the negative effect of Decapeptyl (Triptorelin Acetate or Pamoate Salts) on prostate cancer cells and tissues in prostate cancer treatment processes. Vitamins A (Retinol, retinal, and four carotenoids including beta carotene), B1 (Thiamine), B2 (Riboflavin), B3 (Niacin, niacinamide, Nicotinamide riboside), B5 (Pantothenic acid), B6 (Pyridoxine, pyridoxamine, pyridoxal), B7 (Biotin), B9 (Folates), B12 (Cyanocobalamin, dhyroxocobalamin, etc.) are essential for maintaining cellular health and preventing the transformation of malignant prostate tumors into...