Bacteriophage Based Assays for Detection of Salmonella Organisms

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Author(s): Vimlesh Gupta and Hari Mohan Saxena*

Salmonellosis is an important zoonotic disease but field applicable, simple, accurate, and cost effective diagnostics are lacking. We isolated a broad acting bacteriophage lytic to Salmonella Typhimurium, S. Pullorum, S. Gallinarum and S. Dublin and investigated its application in diagnosis employing MTT assay and nitrate test. ...

Listeria Monocytogenes as a Foodborne Pathogen: Biocontrol in Foods using Lytic Bacteriophages

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Author(s): Naim Deniz Ayaz*, Gizem Cufaoglu

Foods are playing a significant role in human infections because they are frequent vehicles of some human pathogens, which can spread in a short time to all the animals and are associated with cross contamination during production and processing. ...

Immobilization and Biochemical Properties of Purified Xylanase from Bacillus amyloliquefaciens SK-3 and Its Application in Kraft Pulp Biobleaching

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In the present study, we studied the production and immobilization xylanase from Bacillus amyloliquefaciens strain SK-3. Isolate produced highest xylanase activity (56.2±1.6 IU/mol) at pH=8 and 40°C after 48 h incubation in presence of 1% wheat bran. ...

Identification and Evaluation of in vitro Probiotic Attributes of Novel and Potential Strains of Lactic Acid Bacteria Isolated from Traditional Dairy Products of North-West Himalayas

Background: Fermented dairy products of north-west Himalayas (Himachal Pradesh) are rich sources of potential and novel probiotic isolates which further can be explored for their commercial application. ...

Catheter Associated Urinary Tract Candida Infections in Intensive Care Unit Patients

Introduction: Health care associated infections (HCAIs) or nosocomial infections have a propensity to strike in the critical care areas. Surveillance of HCAIs, so as to define the magnitude and nature of the problem, is the primary step towards reducing the risk for infection in vulnerable hospitalized patients. ...

Halotolerant Co-Cultured Bacterial Strains used in Degradation of Tannin Isolated from Tannery Industry Contaminated Sites
The residual tannins discharged from tanning units of the leather industry have an adverse effect on living organism and causes serious environmental pollution. Biological degradation is an important mechanism of organic chemical removal in natural systems owing to its environmental compatibility.

Comparison of hipO and ceuE Gene Based PCR Assays for the Detection of Campylobacter Jejuni

The objective of this study was to find out the reproducibility and specificity of hipO and ceuE genes based PCR assays for the detection of Campylobacter jejuni isolated from turkey meat samples in a previous study. A total of 44 Campylobacter isolates including 41 C. jejuni, two C. coli and one C. lari were used in this study. Although all of the C. jejuni isolates we ...
Zika Virus Infection and a Missed Opportunity

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Author(s): Viroj Wiwanitkit*

Zika virus infection becomes the big consideration in medicine at present since the infection can seriously affect the health of the infected person. ...

Connecting Clinical Practices with Microbiological and Biochemical Technologies

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Author(s): Rosa María Martínez-Espinosa*

The word technology refers to the knowledge of techniques, skills, methods or processes used to produce goods, services or to reach specific objectives (research, business, etc.). The concept technology can also be used to make reference to devices, computers and factories. The history of technology is as long as human beings’ history, however great advances in the fi ...