

Effects of Bacteria on Levels of AFM1 in Phosphate Buffer at Different Level of Energy Source

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Abstract : The binding of AFM1 to bacteria in phosphate buffer solution depended on many factors such as: availability of energy, incubation period, species and strain of bacteria. Increase in concentration of sugar showed higher removal of AFM1 and faster than in phosphate buffer alone. With 1.0% glucose lactic acid bacteria and bifidobacteria showed toxin removal ranging from 7.7 to 39.7% whereas with 10.0% glucose the percentage removal was 21.8 to 45.4% at 96 hours of incubation.

Keywords : aflatoxin M1, lactic acid bacteria, bifidobacteria , binding, phosphate buffer

Conference Title : ICACCE 2015 : International Conference on Applied Chemistry and Chemical Engineering

Conference Location : Istanbul, Türkiye

Conference Dates : January 26-27, 2015