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Whole cell protein profiling of *Brucella abortus* strain 19 through SDS-page technique

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Brucellosis is an important zoonotic infection and economically an important cause of abortion in cattles. The bacterium *Brucella abortus* is the causative agent of Bovine brucellosis. *B. abortus* vaccines; Strain 19 and RB51 used as part of an eradication program or can be used to control the disease in endemic areas. Routine vaccination is often done in calves to minimize the production of persistent antibodies that can interfere with serological tests. The present study was designed to determine the whole cell protein profiling of *B. abortus* strain 19 and to compare vaccinal strain and field isolates on the basis of

protein patterns to observe the extent of homology between them through SDS-PAGE. *B. abortus* was settled down by centrifugation of after taking washings of cultures in normal saline. The cells were then suspended in normal saline and sonicated. The proteins released after sonication were separated out by centrifugation. The sonicated supernatant was used for SDS-PAGE. Conclusively, a single vaccine against all the strains can be used to overcome brucellosis in cattle. However for the development of specific vaccine against specific isolate needs further studies by using SDS-PAGE.

Biography

Sajida Mushtaq has completed M. Phil at the age of 27 years from Pir Mehar Ali Shah Arid Agriculture University Rawalpindi, Pakistan. Currently she is working as a Lab Incharge at Sadiq Brothers Molecular Diagnostic Laboratory for Poultry Diseases Rawalpindi. During M.S she gained considerable and hands on experience of advanced techniques in the cell and molecular biology such as DNA, RNA, PCR, Electrophoresis.

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