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Evaluation of antibrucella components of bovine and murine macrophages

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Abstract

Brucella abortus is an intracellular pathogen of great economic importance affecting macrophages. The present study revealed that bovine and murine macrophages present a significant difference in their ability to produce various antibrucella components such as lysozyme, reactive oxygen species, reactive nitrogen intermediates and pro-inflammatory cytokines. The differential production of these components explained the differential *Brucella* killing ability of these species that was measured in terms of intramacrophagic survival of *Brucella* in murine and bovine macrophages.