

Serum pooling sample in control of bovine Paratuberculosis

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Abstract (168 words)

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Introduction

Paratuberculosis or Johne's disease is a contagious, chronic and progressive granulomatous infection that mainly affects the small intestine and other organs such as the liver and hepatic and mesenteric lymph nodes (1). The disease is caused by *Mycobacterium avium subsp. paratuberculosis* (MAP), which was first described in 1895. It is transmitted mainly from adult to young animals by the fecal-oral route, and grazing animals are the most commonly affected (2). Global average annual losses in major dairy regions have been estimated at ~1% of gross