

Serological analysis of five serotypes of *Pasteurella multocida* of rabbit origin by use of an enzyme-linked immunosorbent assay with lipopolysaccharide as antigen.

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Abstract

The serological relationships among five *Pasteurella multocida* strains, representing five somatic serotypes most commonly isolated from rabbits (serotypes 1, 3, 4, 12, and 15), were studied with an enzyme-linked immunosorbent assay. Lipopolysaccharides from the five serotypes were used as antigens in the assay. Antisera against serotypes 1 and 15 reacted only with their homologous lipopolysaccharides. Significant cross-reactivity was found between serotypes 4 and 12. Serotype 3 antisera showed minimal reactivity with both homologous and heterologous lipopolysaccharides. The feasibility of detecting antibodies to each of several lipopolysaccharide antigens combined in the same assay cell well was demonstrated.

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