

Publication

A simple adult-mouse test for tissue invasiveness in *Yersinia enterocolitica* strains of low experimental virulence**JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)****ID** 156285**Author(s)** Bakour, R; Balligand, G; Laroche, Y; Cornelis, G; Wauters, G**Author(s) at UniBasel** [Cornelis, Guy R.](#) ;**Year** 1985**Title** A simple adult-mouse test for tissue invasiveness in *Yersinia enterocolitica* strains of low experimental virulence**Journal** The Journal of Medical Microbiology**Volume** 19**Number** 2**Pages / Article-Number** 237-46**Keywords** Animals; Antibodies; Bacterial/biosynthesis; Lymph Nodes/microbiology; Mice; Inbred Strains; Plasmids; Serotyping; Spleen/microbiology; Virulence; *Yersinia* Infections/immunology/microbiology; *Yersinia enterocolitica*/genetics/immunology/isolation & purification/*pathogenicity

The virulence of *Yersinia enterocolitica* depends on the presence of a 70-kilobase plasmid, called the Vwa plasmid. This situation is particularly favourable for studies of the mechanism of pathogenicity, but these are hindered by the lack of a suitable animal test to monitor the virulence of the human-pathogenic strains isolated outside the USA which belong to serogroups O:3, O:9 and O:5,27. We observed that, after oral administration to the mouse, the Vwa-positive strains of these serogroups produce a discrete systemic infection while the Vwa-negative strains do not. We present here a simple mouse-virulence test based on this observation.

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