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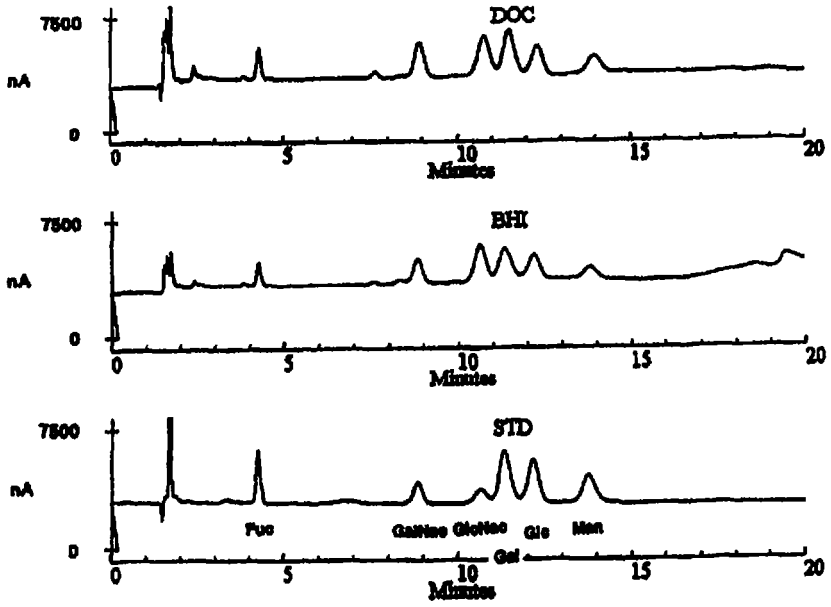


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(54) Title: METHODS FOR PRODUCING ENHANCED ANTIGENIC HELICOBACTER SP. AND VACCINES COMPRISING SAME



(57) Abstract

Methods using *in vitro* processes are disclosed for inducing or enhancing expression of enteric bacterial antigens or virulence factors. The methods, therefore, produce antigencially enhanced enteric bacteria. Also methods for using the antigenically enhanced bacteria are also disclosed, as well as vaccines containing the enteric bacteria. Specifically, a whole enteric bacteria or components thereof are provided by *Helicobacter* species. Also there are other enteric bacteria which are useful for the disclosed invention. One type, *Campylobacter jejuni* is graphically depicted wherein the results of high-performance liquid chromatography of monosaccharides from surface extract hydrolysates of *C.jejuni* are shown.