The Carrier State of Shiga-like Toxin II (SLT II) and Hemolysin-producing Enteroaggregative Escherichia coli Strain

BEATA M. SOBIESZCZAŃSKA¹, ROMUALD GRYKO², EWA DWORNICZEK¹ and KATARZYNA KUZKO¹

¹University of Medicine, Department of Microbiology, 4 Chałubińskiego Street, 50-368 Wroclaw, Poland
²Military Institute of Hygiene and Epidemiology, 2 Lubelska Street, 24-100 Puławy, Poland

Received in revised form 2 February 2004

Abstract

Shiga-like toxin-producing (SLTEC) *Escherichia coli* strains are one of the most important food borne emerging pathogens. One hundred and fifty-seven *E. coli* strains isolated from 39 children with diarrhea of unknown origin and one hundred and five *E. coli* strains from 20 healthy children were examined for Shiga-like toxin production in Vero cell line assay. The synthesis of Shiga-like toxin was observed on Vero cell line and confirmed by PCR for one of 262 *E. coli* strains tested. The shiga-like toxin II-positive *E. coli* strain was isolated from 2-year-old healthy child with no symptoms of gastrointestinal tract infection.

Key words: *E. coli*, toxin SLT II