

## Adhesion of *Lactobacillus* isolates to intestinal epithelial cells of chicken

### ABSTRACT

A total of 46 *Lactobacillus* isolates obtained from chicken intestine were assessed on their ability to adhere to the chicken ileal epithelial cell (IEC) *in vitro*. Twelve out of the 46 isolates showed moderate to good ability to adhere to the IEC. Temperature (between 4°C and 42°C) did not affect attachment. Incubation (contact) time of 30 min was found to be insufficient for the attachment of bacteria to the IEC, but contact time beyond 1 h did not increase this ability. The pH values (4-7) of the suspending buffer did not have any significant effect on the attachment of bacteria to the IEC, but at pH 8 it was reduced significantly ( $P < 0.05$ ).

**Keyword:** *Lactobacillus*; Chicken; Ileal epithelial cell