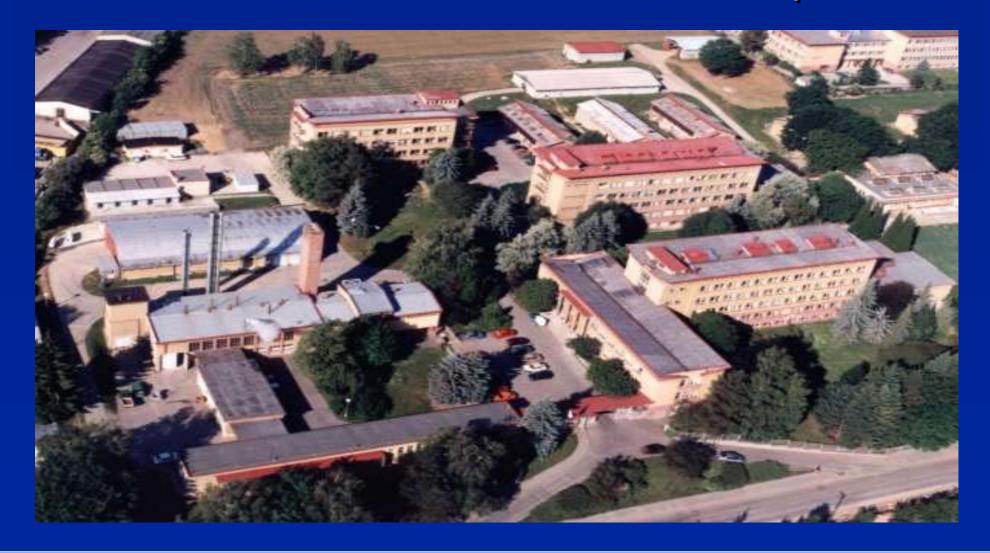
NRL for Escherichia coli of Czech Republic





NRL for *E. coli*, Czech Republic

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Veterinary Research Institute

2006 commemorated - 50th anniversary of its foundation

research projects sponsored by

- Ministry of Agriculture
- State Veterinary Administration of the Czech Republic
- Ministry of Environment
- Grant Agency of the Czech Republic
- other



NRL

- the part of department of Bacteriology
- staff
 - 3 veterinarians (bacteriologists)
 - 1 technician
- research grants
 - The pathogenesis of enteric colibacillosis and salmenellosis in pigs
 - Immunization against colibacillosis
- other activities
 - diagnostics
 - typization of E. coli
 - detection of virulence factors



Methods

- O-antigen
 - serology
- Adhesins
 - serology F4, F5, F6, F18ab
 - PCR F4ab, ac, ad
- **♦ Toxins**
 - PCR stx, eae, LT, STa, STb, EAST1
 - Vero cells stx
 - Y1 cells LT



VTEC detection 2006

- stx1
 - **3** isolates O111, O156, O?
- - 4 isolates 1x O51, 3x O?
- **♦ stx1+stx2**
 - 6 isolates O26, O71, O111, O153, 2x O?
- stx2e
 - 16 isolates (piglets) O141, O?

