



## Study of 91 strains of Escherichia coli bacteria causing edema disease in piglets in South Viet Nam.

January, 2000

**Authors :** N.H. NGUYEN, M.C. TÔ, M. CARLES, A. TRIPODI and G. BODIN

**Summary :** Edema disease is caused by different serotypes of E. coli , the repartition of which varies according to region. From 135 lymphatic nodes of piglets with Edema disease, 91 E. coli bacteria were isolated. Among these bacteria, only 70 could be serotyped with antisera given by Laboratoire de Développement et d'Analyses of Ploufragan (France). Identified serotypes were : O138 : K81, O139 : K82, O141 : K85ab, K88. The results of standard antibiograms showed strong resistance to several antibiotics, certainly due to widespread misuse of antibiotics in Viet Nam. Thus, 100 % of these bacteria were resistant to Ceftriaxone, Bactrim and Cephalexin. 71.4 % are resistant to Colistin, 7.7 % responded to Kanamycin and 84.6 % to Gentamycin. Haemolysis was not a good indicator for research for E. coli responsible for Edema disease in piglets, in Viet Nam.