

## USING OF NEUTRAL ANOLITE ANK FOR SANITARY INSPECTION OF MILKING EQUIPMENT

Saulius Tušas, Josifas Tacas, Ramutė Mišeikienė, Indrė Libnickienė  
*Lithuanian Veterinary Academy, Department of Animal Husbandry, Tilžės st. 18, LT-47181 Kaunas;*  
*Phone: +370 37 36 14 83; e-mail: mmc@lva.lt*

**Summary.** For washing and disinfection of accommodations and surfaces widely is in use a new type of biocide – neutral anolyte ANK. An object of this work – to estimate characteristics electrochemical activity – neutral anolyte ANK solution in laboratorial and manufacturing conditions for medical processing of milking equipment.

Were determined that 0,05% conc. neutral anolyte ANK, made in equipment STEL 10N-120-01 inhibited growing of *Escherichia coli*, *Staphylococcus aureus*, *Streptococcus agalactiae*, *Salmonella enteritis* and *Klebsiella* bacteria. We tested that using of neutral anolyte ANK or alkaline solution for milking equipment disinfection there were no growing of microorganisms before flush out. There were found microorganisms in milk flask and cluster after flushing with water ( $p > 0.05$ ).

After water flushing there were no inhibitory substances in water samples using anolyte ANK, and were determined inhibitors in water samples using alkaline solution. We can use an anolyte ANK for milking equipment disinfection, only it is very important that usable water will be in accordance with hygiene requirements of drinking water.

**Keywords:** neutral anolyte ANK, milking equipment, microorganisms, disinfection.