

## INVESTIGATIONS OF EFFICACY AND TOXICITY OF A NEW ANTISEPTIC GEL FOR TREATMENT OF UDDER SKIN DISEASES

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**Summary.** The antimicrobial activity, toxicity and effectiveness of the gel “Grybaktukas” in treating of udder and teat skin diseases in cows was investigated. In addition, *in vitro* test was performed, which have shown that treatment with gel suppressed the growth of *S. aureus* ( $21.73 \pm 0.17$  mm), *Enterococcus* spp. ( $19.53 \pm 0.26$  mm), *S. agalactiae* ( $18.55 \pm 0.48$  mm) and the growth of *Candida albicans*.

In performed study, after application of gel the udder skin becomes softer, the teats become less painful. Fractures, dermatites, little wounds of udder and teat skin, udder swelling recovered after 3–7 days of treatment. There was no irritation of udder skin after application of gel. It was concluded, that a new gel, which is characterized by an antiseptic, antimicrobial, antimycotic, antialergic and drying effect, can be successfully used for treatment of udder skin diseases in ruminants.

**Keywords:** udder and teat skin diseases, antiseptic gel