

## **The level of antibacterial substances in raw milk in the area monitored by the Veterinary Hygiene Institute in Olsztyn in 2015-2017**

### **Summary**

Dairy products are an integral part of the daily diet of many people. For this reason the quality of raw milk, as the basic component of many dairy products, is extremely important. Research was carried out at the Veterinary Hygiene Institute in Olsztyn in order to analyse residues of antibacterial substances (including antibiotics) in raw milk in the Warmian-Masurian and Kuyavian-Pomeranian Voivodeships in 2015-2017. Samples for testing were obtained as part of a monitoring programme and surveillance testing. In 2015, no undesirable substances were found in the raw milk samples. In the next two years, however, different results were obtained. In 2016, there was a change in research methods. In that year, 4 samples tested positive, which was 0.95% of all analyses. In the following year (2017), 404 samples were tested and residues of antibiotics were found in 11 of them. This was 2.72% of the test samples (4Sensor test). The study showed that there is no uniform trend in the use of antibiotics contrary to applicable regulations. The problem of antimicrobial substances in raw milk is still relevant and requires constant monitoring.

**KEY WORDS:** antibiotics, raw milk, antibacterial substances, health risks