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## Dogs' coat care according to shampoos

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The majority of cosmetics for dogs are shampoos. These are used not only to wash the coat and improve its structural properties but also as adjuvant treatment in various skin diseases. The dogs' owners in Lithuania are beginning carefully to take care of their pet well-being, skin health and appearance of the coat. There are many cosmetic devices for this reason and the market is expanding by the addition of new products. So, the purpose of this work was to evaluate shampoos effects to dogs' hair for daily coat care. There were three dogs in the research work involved and three shampoos for daily coat care for research work selected randomly: X1, X2 and X3. Some hair of each dogs were used for analysis by Scanning Electron Microscope FEI Quanta 200 FEG. There were taken photos of hair cross section. Other hairs were used to evaluate hair ratio of convolution. After the research, there were established that which exploratory shampoo is the most economical (X3) and which is the most suitable for dogs' skin pH (X3). Also, the influence of shampoos' for hair surface, cross section diameter and ratio of convolution was observed. In conclusion, the maximum visible changes were observed in photos after bathing with X3 shampoo, which was evaluated like the best by the dogs' owners.

### Biography

Ruta Budreckiene has completed her Bachelor of Chemical Engineering Sciences in 1996, Master's degree in Polymer Chemistry Sciences in 1998 and Doctor of Physical Sciences (Chemistry) in 2005 from Kaunas University of Technology. She is an Expert of European Food Safety Authority in Lithuanian Republic in field of Panel on Additives and Products or Substances used in Animal Feed and Member of Editorial Board of "Journal of Elementology". She is currently an Associate Professor at the Department of Biochemistry, Faculty of Medicine at Lithuanian University of Health Sciences.

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