

409. Validation of a rapid urinary iodide test in the goat: a preliminary study

Carlos Gutierrez, Juan A. Corbera, Manuel Morales, Noemí Castro.

*Veterinary Faculty, Department of Animal Medicine and Surgery, University of Las Palmas, 35413 Arucas, Las Palmas, Canary Islands, Spain. E-mail: cgutierrez@dpat.ulpgc.es*

A rapid urinary iodide test (Merck, Germany) was assessed in goats to validate its effectiveness in field conditions. The test provides a semiquantitative assessment of the iodine intake and could be valuable for animal population. Two hundred and forty six dairy goats were randomized selected for this study. According to iodide content in urine, results were classified in three groups (<10 µg/dL, 10-30 µg/dL, >30 µg/dL). These findings were in agreement with spectrophotometrical determinations and with serum iodine values. Sensibility and specificity were 89% and 78% respectively. Data on reproducibility and interfering substances were also valuable. Given the technical simplicity, cost-effectiveness and its stability in heat environmental conditions, the rapid urinary iodide test should be considered as a valuable method for epidemiological surveys in field conditions or in development countries.