Bachelor or Master thesis BIOVIT 2021/22

Topic/Title
Innhold av jod i melk fra geit og ku tildelt dietter basert på norske fôrressurser

Topic/Title

Iodine content in milk from dairy goats and cows fed diets based on Norwegian feed resources

Summary

Iodine is an essential component of thyroid hormones and its deficiency is considered as the most common cause of preventable brain damage. During the recent years, iodine deficiency has been detected in Norway, especially among pregnant women. Norwegian goat milk is a good source of iodine.

Locally produced rapeseed products are promising replacements for imported ingredients as fat and protein supplements to dairy goats. However, rapeseeds contain glucosinolates that reduce iodine transfer to milk. On the other hand, seaweeds are rich in iodine and other minerals and may substitute part of not only imported but also local land based feed resources.

The aim of this study is to quantify iodine and selenium contents in milk samples from goats and cows fed different concentrates based on different national feed resources, i.e rapeseed and sea weed.

Type of work

Data analysis, literature study

Subject area

national feed resources, iodine, selenium, dairy cows, dairy goats

Language thesis

Norwegian or English (by choice)

Bachelor or Master thesis

Master thesis

Credits

30 ECTs

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Project/company

TINE

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