METHOD SPECIFICATION
Faculty of Biosciences, NMBU

Method name: Dry matter
BIOVIT No.: Msp1044

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1. Method of analysis / Principle / Main instrument

Water is an important component of the feed. The water content of feeds varies greatly. It is therefore important to know the liquid and dry matter content of the feed in relation to how much feed the animal receives in a feed ration.

The method determines the amount of dry matter in the samples after drying at 103 °C ± 2 °C to constant weight. The samples are dried for a minimum of 4 hours, or overnight. Raw samples must be left overnight. The calculation was corrected for the loss of volatiles in silage during drying according to Volden, H., 2011 and are made by those who have requested the analysis. Grass and silage samples are dried at 60 °C overnight. This is due to loss of volatile compounds.
Main instrument: Drying cabinet, 103 °C ± 2 °C.

2. Reference and any modifications

ISO 6496, Animal feeding stuffs - Determination of moisture and other volatile matter content

3. Requirements for grinding and storage

The method can be used for all organic material and can also be used on raw samples.

Sample amount: 0.5 - 1.0 g or more homogeneous sample - degree of grinding: 1 mm

4. Contact persons

Lab leader: Hanne K. Hustoft
Responsible for analysis: Frank Sundby

5. Additional literature

[1] ISO 6497, Animal feeding stuffs - Sampling
[2] ISO 6498, Animal feeding stuffs - Preparation of test samples
[3] Åkerlind, M., Weisbjerg, M., Eriksson, T., Tøgersen, R., Duén, P., Ólafsson, B. L., Harstad, O. M., Volden, H., Feed analyzes and digestion methods. In *NorFor - The Nordic*

feed evaluation system, EAAP publication No. 130, Wageningen Academic Publishers, Wageningen, 2011, pp. 41-54