

# METHOD SPECIFICATION

Faculty of Biosciences, NMBU

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**Method name: Buffer soluble protein (sCP)**

BIOVIT-no: Msp1171

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## 1. Method of analyses / Principle / Main instrument

Buffer-soluble crude protein (nitrogen) is an easy and fast way to determine the content of easily soluble, degradable protein. The extraction of protein can be influenced by several factors: Type of buffer, pH, temperature, extraction length, separation length and N analysis. The method is recommended by NorFor (dated 2006-11-15).

During the extraction, it is important to ensure a stable pH and temperature. This is done by using a borate-phosphate buffer with pH = 6.75 and holding samples with a buffer of 39 ° C during the incubation. Ie. that one tries to imitate the physiological conditions that are naturally found in a rumen environment. After the extraction, the samples are analyzed in the usual way by the Kjeldahl-N method (Kjeltec).

## 2. Reference and any modifications

This method can be used to determine buffer-soluble protein in all types of animal feed.

The method has not been modified.

Licitera, G., Hernandez, T.M., Van Soest, P. J., 1996. Standardization of procedures for nitrogen fractionation of ruminant feeds. Anim. Feed Sci. Technol. 57, 347-358.

## 3. Requirements for grinding and storage

1.5 g of dry (dried <60 ° C), ground (1 mm) sample material is needed.

## 4. Contact persons

**Lab manager:** Hanne Kolsrud Hustoft

**Responsible for analysis:** Elin Kristoffersen

## 5. Other literature

Nothing

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