

METHOD SPECIFICATION

Faculty of Biosciences, NMBU

Method name: Sugar

BIOVIT no.: msp1018

1. Method of analysis / Principle / Main instrument

Sucrose, glucose and fructose are separated by liquid chromatography (HPLC) and detected with a refraction index (RI) detector. Column, flow rate and temperature are taken from the application note “sugar screening using Eurokat column”. (Application No.: VFD0190). www.knauer.net/en/sugar-screening-using-eurokat-column/a41993

The method can also be used for estimating the levels of fructan.

Main instrument: HPLC-RI: (Azura, Knauer).

2. Reference and any modifications

Application No.: VFD0190. www.knauer.net/en/sugar-screening-using-eurokat-column/a41993

3. Requirements for the degree of grinding

Freeze dried silage and forages. 0.2 g sample is required. Degree of grinding 1 mm.

4. Contact person:

Lab leader: Hanne Kolsrud Hustoft

Responsible for analysis: Elin Follaug Johnsen

5. Additional literature

- 1) [Østerlie, Marianne. Sluttrapport: Utvikling av metode for analyse av pigment i muskel hos laksefisk. Høgskolen i Sør-Trøndelag \(2010\)](#)

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- 2) [Darias Hernández, Tania. "Astaxanthin determination in marine biological samples: an overview." \(2013\)](#)

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