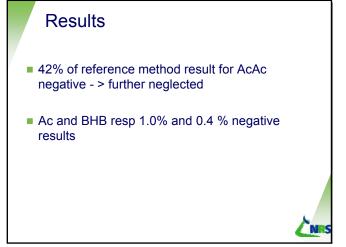


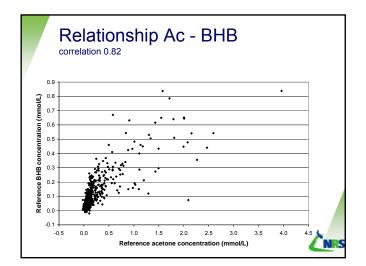
Development calibration

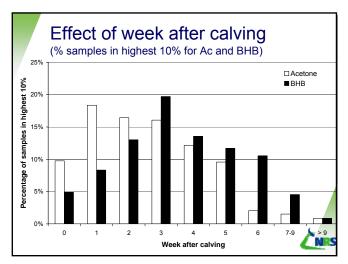
Based on

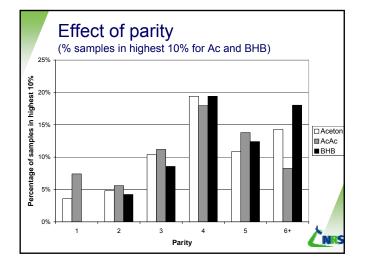
- ▶ reference measure for Ac, AcAc and BHB
- spectra
- algorithms of FOSS
- calibration models were developed

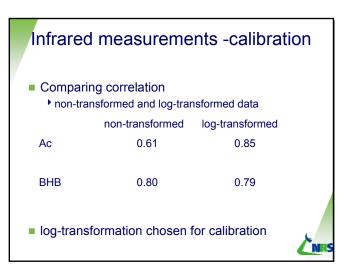
MRS

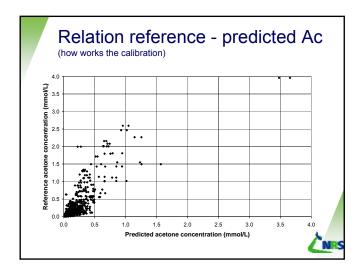


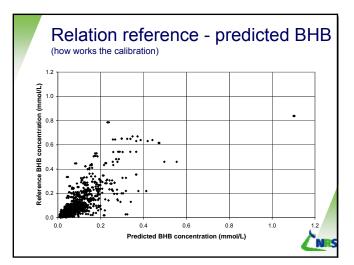


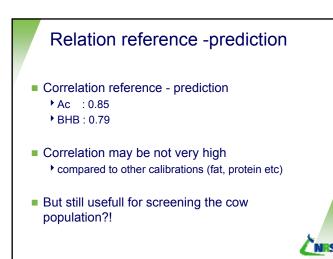












Screening for subclinical ketosis Set for Ac and BHB treshold and determine sensitivity and specificity BHB Ac 0.15 mM 0.10 mM Treshold sensitivity 0.70 0.69 specificity 0.95 0.95 false positives 0.27 0.25

0.06

0.07

Screening cows

- Ac and BHB can be routinely measured using FTIR
- Usage:
 - Iist cows above a certain treshold
 - in combination with fat, protein, lactation stage risk estimators can be developed
 - herd parameter



false negatives

- Ac and BHB can be measured using FTIR accurately enough for screening cows for subclinical ketosis
- In combination with other indicators FTIR predictions for Ac and BHB can be used to evaluate the herd management

