

## AMAFERM® LEVEL AND FORM ON THE DIGESTIBILITY OF DIFFERING-QUALITY FORAGE

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**Supplemental AMAFERM increased ruminal dry matter digestibility.**

### SUMMARY

#### DOSE OF AMAFERM USED

0, 5, 15, 30 g/h/d AMAFERM or  
10 ml/h/d liquid AMAFERM

Dry matter and NDF in situ digestion of hay was increased by feeding 15 g/h/d AMAFERM or 10 ml/h/d liquid AMAFERM to lactating dairy cattle. Feeding 10 ml/h/d AMAFERM Liquid also improved the extent of corn silage DM and NDF digestion.

### VALUE

AMAFERM increased ruminal DM digestibility of hay by increasing the extent and rate of digestion for both DM and NDF.

### PROTOCOL

#### Type of Animals/Experimental Units

- Three lactating ruminally cannulated cows were used in situ

#### Number of Animals/Experimental Units

- Three cows – duplicates at each time point

#### Trial Design

- Complete randomized design with repeated measures

#### Treatments

- 0 (Control)
- 5, 15 and 30 g/d AMAFERM and 10 ml/d AMAFERM Liquid

## PROTOCOL (CONTINUED)

### Diet Information

- N/A

### Data Collection

- 0, 2, 4, 6, 12, 24 and 48-hour rumen DM and NDF digestibilities of hay and corn silage samples, with low or high NDF and low or high NDF digestibility

## DISCUSSION OF RESULTS

- There was no consistent effect of forage quality, within hay or corn silage, on DM or NDF digestibility
- For hay digestion, the extent of NDF digestibility was the highest ( $P < 0.05$ ) with 10 ml/d AMAFERM Liquid compared with other treatments
- The extent of digestion was the greatest ( $P < 0.05$ ) for 10 ml/d and 15 g/d, compared with other treatments, and the KdB was higher for 15 g/d and 10 ml/d ( $P < 0.05$ )
- For corn silage, A and B fraction of DM was not affected by treatments, and C fraction was the lowest ( $P < 0.05$ ) for cows fed 10 ml/h/d vs. 5 g/h/d
- The extent of corn silage NDF digestion was the highest ( $P < 0.05$ ) for 10 ml/h/d, intermediate for 15 g/h/d and 30 g/h/d, and lowest for 5 g/h/d and the Control

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