Effects of soluble fiber inclusion in gestation diets with varying fermentation characteristics on lactational feed intake of sows over two successive parities

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Supplementary Material S1

*The procedure of in vitro fermentation of enzymatically hydrolyzed residues*

Substrates (0.35g) were weighed in duplicate in 150 mL screw cap bottles and flushed with CO2. Fermentation medium with inoculum (60 mL) was added and the mixture was incubated at 39 °C for 48 h. Two bottles without substrate were used as blanks. The gas produced during fermentation was measured by means of a pressure transducer (GP:50, SIN-54978, Grand Island, NY), fitted with digital data tracker (Tracker 211, Intertechnology Inc., Canada). The bottles were vented after every measurement and fermentation was stopped at 48 h by quenching the bottles in iced water.

Supplementary Table S1 The number of sows during the experimental periods

|  |  |  |  |
| --- | --- | --- | --- |
| Item | C1 | KF1 | SBP1 |
| No. of sows during reproductive cycle 1 |
| Breeding  | 30 | 30 | 30 |
| Culled2 during gestation | 3 | 2 | 2 |
| Parturition  | 27 | 28 | 28 |
| Culled2during lactation | 1 | 2 | 1 |
| Weaning | 26 | 26 | 27 |
| No. of sows during reproductive cycle 2 |  |
| Breeding  | 26 | 26 | 27 |
| Returned to estrus3 | 2 | 2 | 3 |
| Culled 2during gestation | 1 | 2 | 1 |
| Parturition  | 23 | 22 | 23 |
| Culled2during lactation | 1 | 0 | 0 |
| Weaning | 22 | 22 | 23 |

1C =control diet group; KF=2.2% *konjac* flour diet group; SBP= 18.5% sugar beet pulp diet group.

2Sows were culled because of illness, serious lameness, death and reproductive failure.

3Sows returned to estrus within the estrus cycle.