

# 饲料添加微囊丁酸钠对母猪及后代生产性能的影响

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**摘要:** 试验旨在通过在母猪妊娠后期及泌乳期饲料中添加微囊丁酸钠,研究其对母猪及后代生产性能的影响。试验选用18头胎次及配种时间相近的(长×大)二元杂交母猪,采用单因子完全随机设计,分为2个试验组,每个组9头,对照组饲喂基础饲料,微囊丁酸钠组饲喂基础饲料+微囊丁酸钠的饲料。试验周期为妊娠85 d到断奶后再发情。结果表明:①在母猪妊娠后期及哺乳期饲料中添加微囊丁酸钠后,母猪泌乳期日采食量提高了300 g,提高比例为6.67%,但差异不显著( $P>0.05$ );添加微囊丁酸钠后,母猪泌乳期掉膘较对照组降低了1.84 mm,降低比例为44.66%( $P<0.05$ );此外,微囊丁酸钠组母猪断奶后发情间隔较对照组缩短了0.5 d,缩短比例为11.60%,但无显著性差异( $P>0.05$ )。②添加微囊丁酸钠后,仔猪初生个体重提高了40 g( $P=0.19$ ),提高比例为2.7%;断奶个体重提高了200 g,提高比例为2.8%( $P>0.05$ )。结果提示,在母猪妊娠后期及泌乳期间添加微囊丁酸钠,能够提高母猪泌乳期采食量,减少泌乳期掉膘,缩短断奶后的发情间隔。同时,母猪饲料中添加微囊丁酸钠,能够提高其后代仔猪的初生重及断奶重。

**关键词:** 微囊丁酸钠;母猪;仔猪;生产性能

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## Effects of dietary with microcapsule sodium butyrate on reproductive performance of sows and growth performance of piglets

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**Abstract:** This study was conducted to investigate the effects of dietary with microencapsulated sodium butyrate (MSB) on reproductive performance of sows and growth performance of piglets. A total of 18 sows (Landrace and Large white binary sow) were randomly assigned to two groups, each group contained 9 sows. Control group was fed with basal diet, and MSB group was fed with basal diet plus MSB. This experiment started from 85 d of gestation to oestrus after weaning. Results showed that:① Dietary with MSB increased feed intake of lactation sow by 300 g/d, and relative ratio was increased by 6.67% ( $P>0.05$ ). Compared with control, back-fat thickness of MSB group was significantly decreased by 1.84 mm, and relative ratio was decreased by 44.66%. Otherwise, supplementation with MSB reduced oestrus time after weaning by 0.5 d, and relative ratio was decreased by 11.60% ( $P>0.05$ ). ② Dietary with MSB increased birth weight of piglets by 40 g ( $P=0.19$ ), and relative ratio was increased by 2.7%. And average body weight at weaning was increased by 200 g in MSB group, the relative ratio was enhanced by 2.8% ( $P>0.05$ ). Results showed that supplementation with MSB in late gestation and lactation period can increase average feed intake of lactation sow, decrease back-fat thickness loss during lactation period, reduce interval time of oestrus after weaning. Meanwhile, dietary with MSB can increase birth weight and weaning weight of piglets.

**Key words:** microencapsulated sodium butyrate; sow; piglet; reproductive performance

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母猪是猪场利益的核心,母猪饲养的好坏直接关系到猪场的赢得与否。母猪利用率越高,生产中的分