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仔猪内源性精氨酸合成研究进展

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Research Advances on Endogenous Arginine Synthesis in Piglets

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摘要 精氨酸是幼龄哺乳动物的一种重要的必需氨基酸, 具有多种生理生化功能。母乳中严重缺乏精氨酸, 致使哺乳仔猪经常出现精氨酸缺乏。外源性精氨酸的拮抗与毒副作用及仔猪精氨酸的内源性合成对其精氨酸平衡起着重要作用。因此, 如何调控内源性精氨酸的合成便成了哺乳仔猪精氨酸营养研究的核心。为了便于了解内源性精氨酸合成调控技术在仔猪生产中的应用, 本文对仔猪内源性精氨酸的合成途径、合成部位以及调控因素进行了综述。

关键词: [精氨酸](#); [仔猪](#); [内源性合成](#)

Abstract: Arginine (Arg), as an important essential amino acid, presents many physiological and biochemical functions in young mammals. Deficiency of Arg often occurs in suckling piglets due to insufficient Arg in breast milk. Considering the antagonism and side-effects of exogenous Arg, the endogenous synthesis of Arg plays an important role in Arg balance in piglets. Therefore, the researches on Arg nutrition in suckling piglets focus on the regulation of endogenous synthesis of Arg. This article reviewed the synthesis pathway, synthetic sites and regulation of endogenous synthesis of Arg in piglets in order to facilitate the understanding of regulation technology of endogenous synthesis of Arg in piglet production. [Chinese Journal of Animal Nutrition, 2011, 23 (1) : 5-9]

Keywords: [arginine](#); [piglet](#); [endogenous synthesis](#)

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