Butyrates Done Right: Selecting the Most Effective Solution for Your Objectives

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Gut health challenges evolve throughout an animal's life. The needs of a breeder flock are very different from those of a newly hatched chick. While all livestock animals can benefit from the dietary supplementation of butyrate, given its well-established role in maintaining intestinal health, at Adisseo, we believe butyrate solutions should be selected according to the animal's needs and the producer's expectations.

Several considerations must be considered when evaluating the inclusion of butyrate in feed, including the stage of production and potential health risks on the farm, as well as operational convenience and production profitability.

To maximise intestinal health while reducing zoonotic pathogen pressure, intestinal precision-delivery and reliability are essential. For these applications, Adimix Precision provides targeted delivery of butyrate, supporting gut health throughout the entire gastrointestinal tract while contributing to the control of enteric pathogens such as Salmonella and Campylobacter. When producers seek maximum protection and safety, Adimix Precision offers a differentiated solution.

When the primary objective is to deliver high concentrations of butyrate to the small intestine and thereby support optimal intestinal development and nutrient utilisation, butyric acid triglycerides (tributyrin) are often the preferred choice. FRA Butyrin Hybrid contains substantial levels of tributyrin. In addition, it contains α-monobutyrin with antimicrobial properties. This combination provides a dual mode of action: support of intestinal function through butyrate delivery, while helping to control the growth of potentially pathogenic bacteria, such as Escherichia coli.



Another approach to harness the benefits of dietary butyrate is to supply it in a highly concentrated form. Pure butyrate can be readily absorbed by epithelial cells in the upper gastrointestinal tract, where it primarily serves as an energy source and signalling molecule. A smaller proportion may enter the portal circulation and reach the liver. However, pure sodium butyrate is inherently dusty, which can create challenges in feed mill operations due to its characteristic odour and suboptimal flowability. To overcome these limitations, Adisseo offers Sanion Tetra 50 and Sanion Tetra 70: highly concentrated sodium butyrate products in granular form. This technology substantially reduces dust formation and odour while improving handling, flowability, and overall ease of use during feed manufacturing.

The recent launch of Sanion Tetra further strengthens Adisseo's offering for customers seeking high butyrate value with a cost-efficient approach.

By aligning butyrate technology with life stage and production goals, Adisseo delivers a portfolio that supports animal health from the earliest stages of development through to the most valuable phases of production, helping producers achieve both health and performance objectives. ■