

# TruEquine™ Science Short: The Gut Economy

## Postbiotics:

### A Smart Investment for a Thriving Gut Economy

The gut microbiome is complex but isn't too different from your local economy. Within the gut economy, **metabolites** serve as the currency used for energy and other life functions, **prebiotics** lay the foundation for creating the investment environment, **probiotics** act as the foreign investors, and **postbiotics** are the valuable dividend rewards yielded from wise investments. Like any thriving economy, maintaining a consistent flow of currency is critical for long-term success. **TruEquine postbiotics are a highly efficient way to deliver a consistent and precise combination of metabolites to the horse's gut to keep the "economy" running smoothly.**



#### Prebiotic Infrastructure: The Investment Environment

Prebiotics create the conditions for a healthy gut, setting the stage for the following components to flourish. A steady supply of prebiotics from non-digestible fiber sources helps nourish healthy probiotic populations.



#### Metabolites: The Currency

Metabolites are the essential currency in the horse's gut economy. They include a wide range of substances, such as amino acids, vitamins, and short chain fatty acids. Just as currency is the money that helps an economy function, metabolites are the currency that get used for energy and other life functions. Horses need a consistent supply of metabolites daily for the gut economy to continue running smoothly.



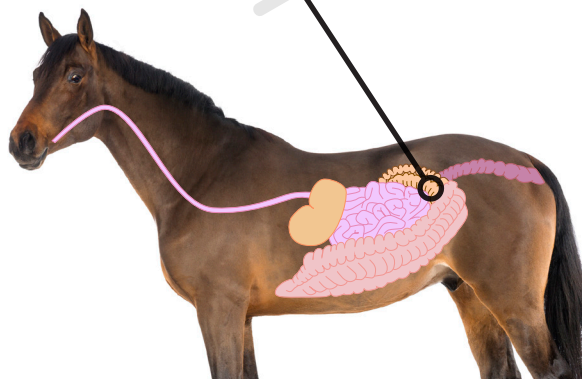
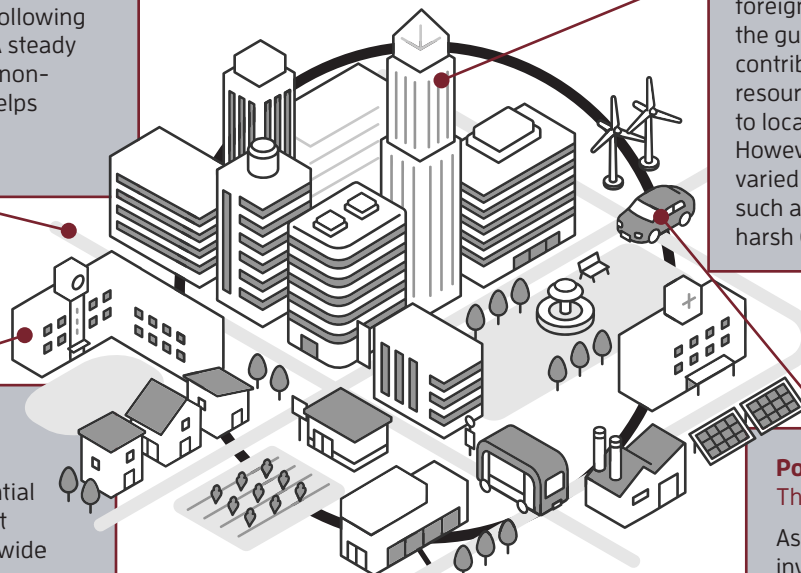
#### Probiotic Diversity: The Foreign Investors

Probiotics are beneficial living organisms that help balance bacteria populations. Much like foreign capital, probiotics arrive in the gut with a specific mission – to contribute their unique skills and resources which are then converted to local currency (metabolites). However, their success may be varied due to external challenges, such as horse stress, medications, harsh GI tract, etc.



#### Postbiotic Rewards: The Dividends

As probiotics work within the investment-friendly environment created by prebiotics, they begin generating valuable returns in the form of postbiotics. Postbiotics are the dividends and benefits attained from wise investments. Postbiotics contain the metabolites that can then be cashed in and absorbed by the gut lining to be converted into energy and for other life functions.



**TruEquine postbiotics are like a daily direct deposit of metabolites delivered right to the horse's gut to support health and performance.**

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