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# Animal nutrition

Health starts and ends with the gut.

July 6, 2017



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## Subhead typography

- Positively influence growth performance, intestinal microbial balance and liver health
- Relieves weaning stress, prevents diarrhea and promotes growth
- Combats pathogenic bacteria and fungi, reducing spoilage

## Cytozyme USA heat stress trial summary

500 ppm application rate



**Increased**  
weight gain



**Decreased**  
feed conversion  
ratio



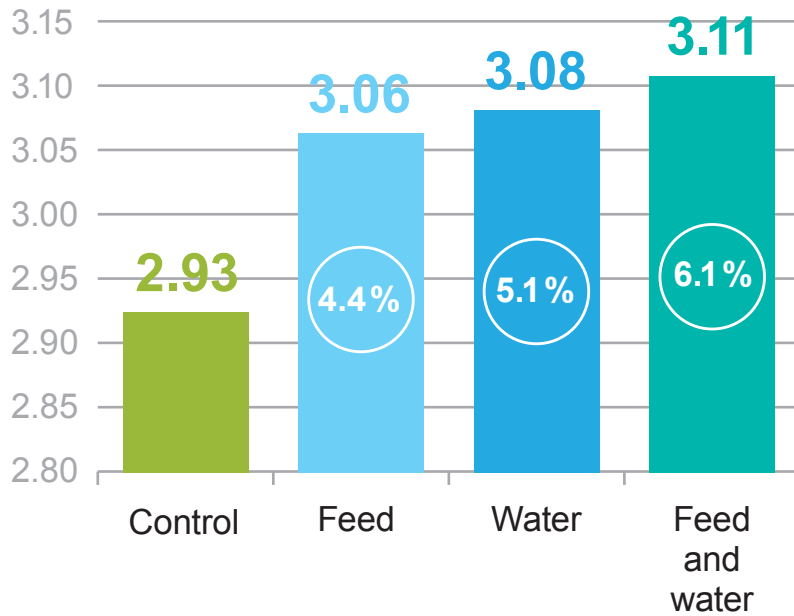
**Decreased**  
lesion scores



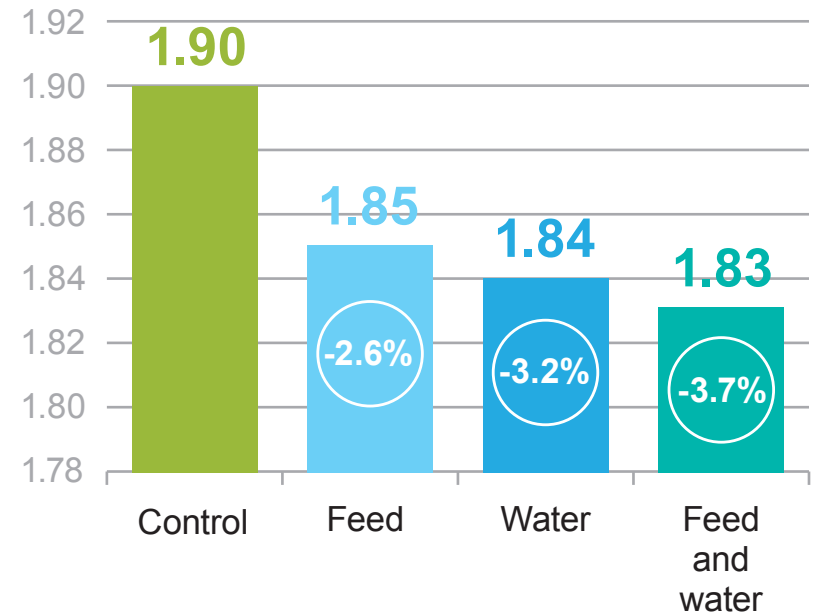
**Decreased**  
mortality rate

## Effects of Feed vs Water Application On Broiler Performance

### Body Weight Gain (kg)



### Feed Conversion Ratio



## Effects of Feed vs Water Application

### On Broiler Performance

	Fermentation Metabolites	Live Probiotics
<b>Surviving in a harsh environment</b>	Metabolites can pass through harsh stomach conditions without losing biological activity	Probiotics often do not survive in sufficient numbers to be effective often resulting in poor performance.
<b>Intestinal Landing Sites</b>	Metabolites do not require a landing site to be effective	Live probiotics require a landing site to be effective and can pass through the gut, unused, without attaching to the gut wall.
<b>Features</b>	Cytozyme products provide nutrition for intestinal microbes	Live probiotics require nutrition to survive
<b>Stability</b>	Cytozyme products are extremely stable and easy to store, shelf life of up to 3 years	Live probiotics are not easy to store and are unstable, need to be refrigerated or frequently fermented before use, shelf life is short and unstable during transport
<b>Mutation</b>	Fermentation metabolites are stable and never mutate, which means they have a consistent effect	Live Probiotics can undergo mutations that can reduce and change their effect.

## US Headquarters

All R&D, manufacturing, production and packaging done in Salt Lake City, Utah

