



INNOVATIVE DEPENDABLE EFFECTIVE



**KENDER®
BEEF 101**

A natural phytogetic
additive for beef cattle
feeds.



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ESSENTIAL OILS HELP INCREASE BEEF CATTLE'S CAPACITY TO OVERCOME STRESS

Animal responses to environmental stressors such as grouping density, have been investigated for some time. Feeding behavior has been correlated with different stressors and can have a direct impact on rumen digestion, health, efficiency, and productivity (Allen, 1997). The size of the meal and the frequency of eating will have a direct impact of the rumen digestion and the acidosis status of beef animals consuming very concentrated rations.

KENDER BIO TECH has therefore launched a natural and effective approach based on specific essential oils to increase the capacity of beef animals to overcome stress on a feedlot. This natural approach uses selected botanical extracts with calming properties (De Souza et al., 2015).

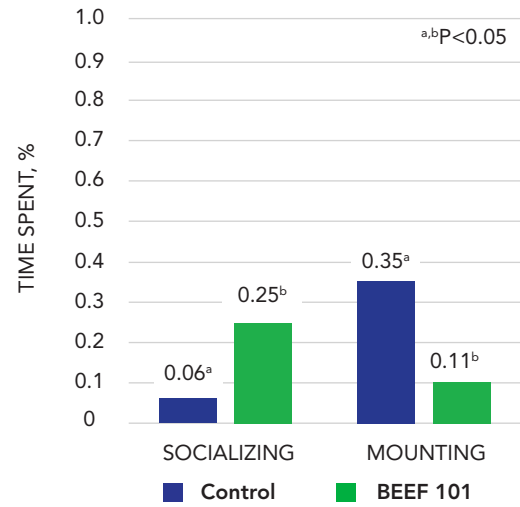
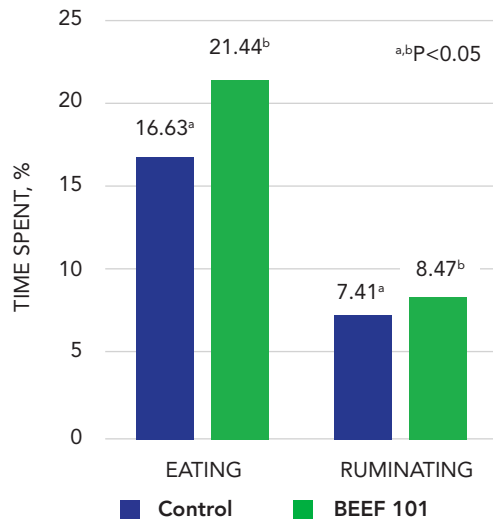
Pastori D'Aurea et al. (2019) showed that finishing bulls receiving a calming botanical extract were able to spend more time eating, ruminating and socializing and less time mounting over a period of 14 weeks. This data indicates that anxiolytic botanical extract can have an impact on feeding behavior on grouped beef animals.



Botanical extracts help support animal well-being.

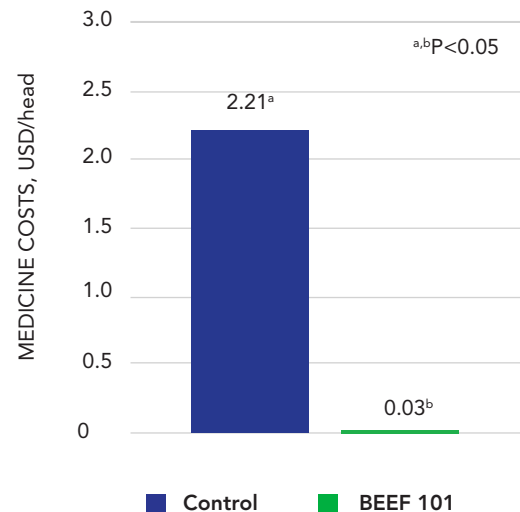
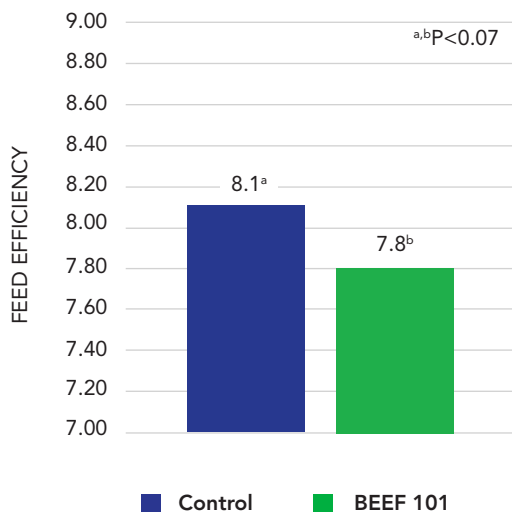
Modulate stress messages in animals' brain.

KENDER® BEEF 101 contains selected and standardized fractions from citrus, lavender, and rosemary which have been shown to modulate the stress message in the brain of animals.



Figures 1 and 2. Effect of botanical extracts on the behavior of finishing feedlot beef animals.

A recent feedlot trial in Texas using 1,185 Angus steers randomly allocated to 8 pens studied the effect of KENDER BEEF 101 on their performances and health over a period of 189 days. At the end of the trial, steers fed KENDER BEEF 101 had the same average liveweight despite a significant ($P<0.05$) decrease in feed intake (3.71 vs 3.84% of LW), leading to better feed efficiency. Health was also improved for the treated animals as measured by the cost of medicine per head for the trial (Greeff et al., 2019).



KENDER® BEEF 101 fed at 1 g/head/day could significantly improve performance and health of finishing feedlot steers.

YORK AG & KENDER BIO TECH

York Ag is an authorized U.S. distributor of Kender Bio Tech products. Kender Bio Tech is a U.S. company based out of Colorado, whose founders have over 30 years of experience in Ruminant and Monogastric Feed Additives and Formulation. As the world is changing, consumers want to know how their food is produced and question the use of antibiotics. Kender offers natural solutions to the animal industry helping producers gain better performance while using less antibiotics. These natural solutions ensure safe and wholesome beef, swine, and dairy products to the end consumer.

Kender Bio Tech carries research at several Universities in Canada, Europe, and South Africa. Kender Bio Tech currently collaborates with nutritionists and vets in the United States, Canada, and South Africa. To learn more about the Kender Bio Tech ingredients portfolio, contact York Ag today.



WHO WE ARE

York Ag is a dynamic supplier of holistic ingredient solutions focused on supporting animal well-being.

WHY WE EXIST

York Ag lives to bring innovative, dependable, and effective feed ingredient solutions to feed manufacturers, livestock consultants, and animal producers.

HOW WE OPERATE

York Ag uses determination, curiosity, and a collaborative approach to recommend and supply functional products that deliver both performance and profitability in an increasingly transparent marketplace.

OUR HOPE

York Ag seeks to enrich the lives of animals, producers, and consumers.

Everyone Deserves
a Nutritious Meal™



INNOVATIVE DEPENDABLE EFFECTIVE

www.yorkag.com

York Ag creates holistic ingredient solutions that optimize animal well-being.
KENDER® BEEF 101 is a registered trademark of KENDER BIO TECH.

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