



AGRI-KING
KEY TO PROFIT

BEEF TECHNOLOGIES

WHO ARE WE?

"Capturing the nutritional value in feeds is the key to profit."

Founded in 1968, Agri-King is an animal nutrition company committed to the success and profitability of livestock producers worldwide. With over 50 years of experience, we're committed to serving the farming community by using the most-advanced nutritional concepts in all our products.

THE BEEF SYNERGY PROGRAM

Agri-King's Beef Synergy Program provides clients a multi-faceted approach, utilizing the many resources available to provide beef producers with the best performance, health, and profitability for their livestock and operations. The four key components of the program are Customized Nutrition Consulting, Agri-King Laboratory & Tech Services, Capturing Forages Value, and Innovative Nutrition Products.



A BALANCED PROGRAM

Your program is supported by a team of nutrition consultants, Ph.D. nutritionists, and ration analysts giving our clients unmatched ration accuracy, flexibility, and innovation to maximize performance and ROI.

CUSTOMIZED NUTRITION CONSULTING



Your program utilizes bioavailable VTMs, proprietary enzyme technology, and patented direct-fed microbials to achieve synergistic results.

INNOVATIVE NUTRITION PRODUCTS



BEEF SYNERGY PROGRAM



AGRI-KING LABORATORY & TECH SERVICES

An essential aspect of the program starts with a precise and accurate nutrient analysis of forages and feedstuffs utilized on the farm.



CAPTURING FORAGES' VALUE

Your program begins with capturing the value of your forages and high moisture grains. Maximizing digestibility and nutrient retention of feeds is crucial to a profitable beef nutrition program.

BEEF MULTI-FACTORS

BEEF MULTI-FACTORS

Beef Multi-Factors supplies the basic vitamin and bioavailable trace mineral requirements for all classes of beef cattle

FEATURES	BENEFITS
Superior mineral technology	Enhance growth, hoof integrity, milk production and reproduction
High levels of Vitamins A, D and E	Optimize growth, immune function and reproductive efficiency
Thiamine	Supplementation is recommended for beef cattle consuming low fiber, high corn-coproduct diets to reduce the risk of polioencephalomalacia (PEM)

IS YOUR MINERAL PROGRAM THE BEST?

ADVANCED MINERAL TECHNOLOGY: The unique chemical structure of the trace minerals in Beef Multi-Factors results in improved digestion and absorption, leading to enhanced animal performance and reduced negative environmental impact.

NON-REACTIVE: Beef Multi-Factors includes trace minerals that are insoluble in rumen fluid, making them directly available to the animal through intestinal absorption.

VALUE: Beef Multi-Factors is a precisely-balanced trace mineral and vitamin supplement to optimize all aspects of beef production at a cost-effective price.

BEEF JUMP START

JUMP START

Beef Jump Start is a direct-fed microbial, enzyme and nutritional supplement containing vitamins and trace minerals specially formulated for incoming beef cattle.

FEATURES	BENEFITS
Tri-Lution® technology	Stimulate feed and water intake, while helping support a healthy gut
Ru-Mend® technology	Enzyme technology to enhance digestion of feedstuffs
Chromium	Greater efficiency of glucose utilization to help improve feed efficiency, growth and immunity during times of stress
High levels of Vitamins A, D and E	Help optimize immune function
Superior mineral technology	Optimize growth, feed efficiency, hoof integrity and immune function



MAXIMISER®

Maximiser

Maximiser® is a blend of enzymes, direct-fed microbials and nutrients designed to enhance nutrient digestibility and metabolism. Maximiser® is designed to be fed to growing and finishing cattle after the receiving period is over.

FEATURES

BENEFITS

Multi-enzyme technology

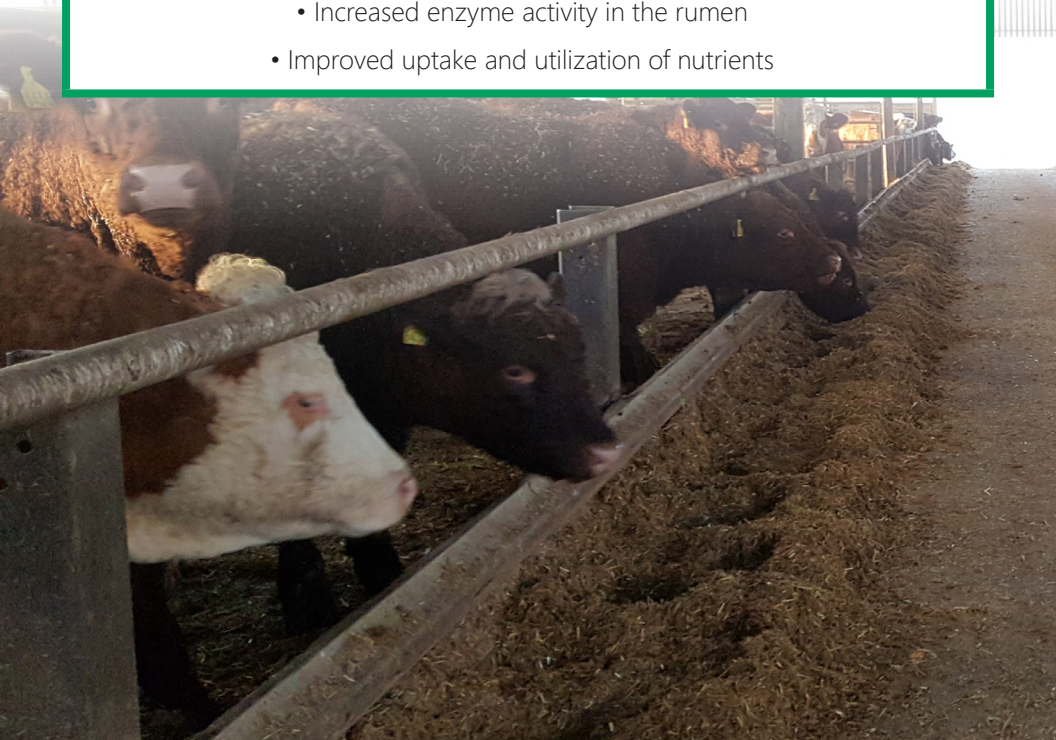
Enhance digestion of starch, protein and fiber

Direct-fed microbials

Promote balance within the digestive system to help enhance performance

RESULTS

- Greater concentration and more optimal profile of volatile fatty acids
 - Increased enzyme activity in the rumen
 - Improved uptake and utilization of nutrients



ON-FARM RESULTS

In independent research trials at a central Kansas feed yard, steers and heifers on a grower diet supplemented with Maximiser® experienced increases in average daily gain and feed efficiency, resulting in improved net revenue per head.

STEERS

	Control (233 head)	Maximiser® (231 head)	Difference
ADG, lbs/head/day	3.11 ^a	3.25 ^b	+4.5%
DM intake, lbs/head/day	15.5 ^a	15.0 ^b	0.5 lbs.
Feed:Gain	5.04 ^a	4.63 ^b	+8.13%
Net revenue/head	\$141.63	\$153.01	+\$11.38

*Steers were fed grower diet for 55 days, ^{a,b} values are significant at P<0.15, *\$1.45/lb live weight, **Feed cost = \$249.42/ton (DM basis), ***Maximiser® cost \$0.04/hd/d*

HEIFERS

	Control (574 head)	Maximiser® (572 head)	Difference
DM intake, lbs/head/day	21.02 ^a	19.54 ^b	+1.48 lbs.
Feed:Gain	5.56 ^a	5.21 ^b	6.29%
Ration digestion	50.11%	53.06%	+5.89%
Feed cost/head*	\$157.69	\$149.07	-\$8.62

*Heifers were fed grower diet for 62 days, ^{a,b} values are significant at P<0.10, *Feed cost \$0.121 lbs/DM/d with \$0.04/d cost added for Maximiser®*

TRI-LUTION® RUMINANT

Tri-Lution® Ruminant is a combination of probiotic lactic acid-producing bacteria, prebiotic nutrients, and yeast. By design, the components in Tri-Lution® Ruminant were synergistically brought together and, through field evaluation, shown to:



- *Helps to support and balance a healthy rumen and digestive tract*
- *Stimulate feed and water consumption*
- *Assist immune response and reduce pathogen pressure in the digestive tract*

	FEATURES	BENEFITS
PROBIOTICS <i>(direct-fed microbials)</i>	Whole live yeast	Mitigate excessive lactic acid production and low rumen pH
	Lactic-acid producing bacteria	Improve nutrient utilization and modulate microbial balance in the gut
PREBIOTICS	Non-digestible carbohydrates	Selectively stimulates the growth of beneficial intestinal microflora

Calves and high-risk cattle	0.07 lbs. (32 grams)/head/day for 14 days
Yearlings and starter cattle	0.10 lbs. (45 grams)/head/day for 7 days
Following antibiotic treatment	0.10 lbs. (45 grams)/head/day for 5 days
Natural feeding systems	0.025 lbs. (11 grams)/head/day fed continuously through entire feeding period

KEY-BAC PASTE®

KEY-BAC PASTE®

Key-Bac Paste is a microbial product combining Agri-King's proprietary Tri-Lution® technology with fat-soluble vitamins in an easy-to-use tube

<i>FEATURES</i>	<i>BENEFITS</i>
Probiotics	Contains live, viable microorganisms, including bacteria and yeast, to stimulate feed/water intake and support the gut microbial balance
B-vitamins	Improves rumen metabolic functions
Fat-soluble vitamins and trace minerals	Supports immune function and cell health
Easy to use	Applicator tube fits standard worming and dosing guns



WHERE CAN KEY-BAC PASTE® BE USED?

- Newborn calves 2 to 21 days of age
- Calves experiencing scours caused by pathogenic bacteria
- Receiving calves at feedlot processing
- Feedlot cattle dealing with digestive upset from diet changes or antibiotic treatment

SILO-KING®

SILO-KING®



Silo-King® is Agri-King's forage and grain treatment program designed for use on many types of feeds, including corn silage, haylage, high moisture corn, alfalfa hay and balage. The ingredients in Silo-King®, which include antioxidants, enzymes and lactic acid-producing bacteria, work synergistically to enhance the ensiling process and help provide higher-quality forages.

★
**LESS
HEATING**

Silo-King® uses antioxidants to scavenge oxygen within the forage or grain, minimizing respiration and heating to reduce dry matter loss and retain more nutrients.

★
**INCREASED
DIGESTIBILITY**

The enzymes in Silo-King® break down the cell wall and predigest stem fibers or grain, allowing the fiber or grain to be digested easier within the animal's rumen.

★
**ENHANCED
PALATABILITY**

Silo-King® reduces spoilage, retaining sugars to reduce secondary fermentation, which allows for improved palatability for livestock.

★
**MORE
ENERGY**

Silo-King® improves digestibility and nutrient retention, resulting in higher quality feeds with more available energy.

★
**IMPROVED
BUNK LIFE**

Silo-King® treated forages have improved bunk life because spoilage and heating are controlled, and dry matter loss is minimized.

HOOF KING

Hoof King® is a feed supplement designed to support hoof health through biologically available trace minerals and nutrients

<i>FEATURES</i>	<i>BENEFITS</i>
Biotin	Needed to form keratin and support hoof integrity
Organic sources of trace minerals	Supports development and structural strength of bone and cartilage; bioavailable forms of minerals are more readily available to the animal than inorganic forms
Vitamin E	Maintains cell integrity as an antioxidant

A trial on heifers in Michigan found supplementation with Hoof King® resulted in an 87% reduction in foot rot after 60 days, in addition to fewer incidents and lower severity of hairy warts.

HOOF HEALTH TRIAL

Foot Rot, % Incidence



Hairy Warts, Number



