

## Advantages to a CRYSTALYX® Mineral Pasture Program.

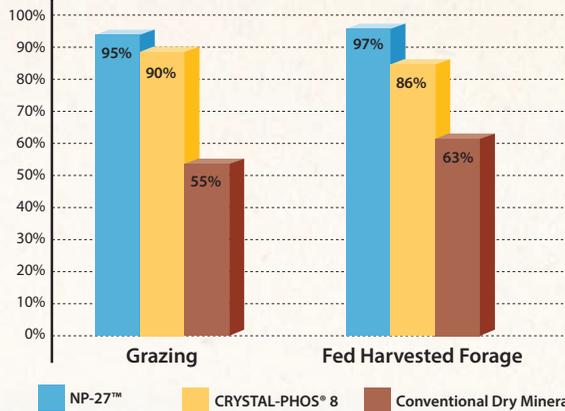


Mineral, vitamin and trace mineral antagonist levels contained in pasture grasses will vary greatly by season, maturity and pasture location. As grasses advance to maturity, phosphorus and

calcium levels decrease rapidly. Hot, dry weather further diminishes pasture nutrient values. For these reasons, feeding CRYSTALYX® Mineral Supplements is important to ensure cattle receive ideal levels of nutrients they need for optimum health and performance.

## Compare the Benefits and Save!

Percent of Cows Consuming Supplement



When providing a mineral supplement along with protein, it has been found that a high percentage of the cows will choose low-moisture blocks.

*"Comparison of Low-Moisture Molasses Blocks and Loose Dry Mineral Mixes as Delivery Systems for Supplementing Trace Minerals to Rangeland Cattle." Bailey, D.W. and G.R. Welling. 2002. Abstr., Ann. Mtg. Soc. Range Manage. Kansas City, MO, Feb., 2002.*

## Technology for Improved Health and Performance



Added **BIOPLEX®** organic trace minerals are easily absorbed and readily metabolized.

- Supported by more than 21 years of research
- Provides mineral nutrition in a the same form found in plants
- Easily absorbed, readily metabolized
- Excellent sources of essential copper, manganese, zinc and cobalt
- Greater bioavailability than inorganic minerals



Added **BIO-MOS®** promotes gut health.

BIO-MOS® is derived from a specific strain of yeast and helps promote animal performance.

### BIO-MOS® Supports:

- Colostrum quality
- New calf performance
- Efficient nutrient transfer from cow to calf
- Gastrointestinal integrity and stability (gut health)



Added **ACTIGEN®** promotes performance naturally.

A cost effective, safe and traceable technology that helps animals to thrive and reach their genetic potential.

### ACTIGEN® Supports:

- Gut health
- Efficient nutrient utilization



Added **FEB-200™** to protect herd health and performance when grazing tall fescue.

- 15+ years of research to support herd health and performance
- Low inclusion rate to ensure cattle maximize their true potential while optimizing profitability

Ask for CRYSTALYX® Supplements at your local dealer:



**Crystallyx®**  
BRAND SUPPLEMENTS

## Mineral Programs

Nutrient dense, self-fed supplements now with Alltech® technology for better performance.



**Crystallyx®**  
BRAND SUPPLEMENTS

Mankato, MN 56001  
1.800.727.2502  
Crystallyx.com

W90162  
09/17

*BIOPLEX®, BIO-MOS®, ACTIGEN® and FEB-200™ are registered trademarks of Alltech®. Tasco® is a registered trademark of Acadian Seaplants. Clarifly® is a registered trademark of Wellmark International.*



# MINERALS

TYPICAL NUTRIENT ANALYSIS	PREMIUM LineUp	BALANCED LineUp			ECONOMY LineUp
	<b>BREED<sup>UP</sup> MAX</b>	<b>Crystal-Phos<sup>4</sup></b> <small>Mineral Supplement</small>	<b>Crystal-Phos<sup>8</sup></b> <small>Mineral Supplement</small>	<b>Fescue-Phos<sup>®</sup></b> <small>MINERAL SUPPLEMENT</small>	<b>Mineral-lyx<sup>®</sup></b>
Crude Protein, min	—	—	—	—	4.0%
Crude Fat, min	3.0%	3.0%	3.0%	3.0%	3.0%
Calcium (Ca), min	6.0%	8.5%	7.0%	5.0%	3.5%
Calcium (Ca), max	7.0%	10.0%	8.0%	6.0%	4.5%
Phosphorus (P), min	6.0%	4.0%	8.0%	5.0%	4.0%
Salt (NaCl)	None Added	None Added	None Added	None Added	None Added
Magnesium (Mg), min	3.5%	2.5%	2.5%	5.0%	3.0%
Cobalt (Co), min	65 ppm	30 ppm	30 ppm	20 ppm	5 ppm
Copper (Cu), min	2,000 ppm	1,000 ppm	1,000 ppm	2,000 ppm	500 ppm
Iodine (I), min	100 ppm	50 ppm	50 ppm	50 ppm	25 ppm
Manganese (Mn), min	8,000 ppm	4,000 ppm	4,000 ppm	4,000 ppm	2,000 ppm
Selenium (Se), min	13.2 ppm	13.2 ppm	13.2 ppm	13.2 ppm	8.8 ppm
Zinc (Zn), min	6,000 ppm	3,000 ppm	3,000 ppm	6,000 ppm	1,500 ppm
Vitamin A, min	300,000 IU/lb	100,000 IU/lb	200,000 IU/lb	200,000 IU/lb	100,000 IU/lb
Vitamin D <sub>3</sub> , min	30,000 IU/lb	10,000 IU/lb	20,000 IU/lb	40,000 IU/lb	10,000 IU/lb
Vitamin E, min	1,000 IU/lb	100 IU/lb	200 IU/lb	200 IU/lb	100 IU/lb
	Contains <b>BIOPLEX<sup>®</sup></b> organic trace minerals.	Contains <b>BIOPLEX<sup>®</sup></b> organic trace minerals.	Contains <b>BIOPLEX<sup>®</sup></b> organic trace minerals.	Contains <b>BIOPLEX<sup>®</sup></b> organic trace minerals.	
ACTIGEN <sup>®</sup> OPTION					
BIO-MOS <sup>®</sup> OPTION					
FEB-200 <sup>™</sup> OPTION					



# FLY CONTROL

## BREED<sup>UP</sup> MAX

Nutrient dense, self-fed mineral supplement. Ideal for overcoming nutritional stress associated with calving and the breeding period.

## Crystal-Phos<sup>4</sup>

Self-fed mineral supplement designed to compliment the mineral composition of grass or legume forages.

## Crystal-Phos<sup>8</sup>

Ideal stand-alone mineral with supplemental macro minerals, organic trace minerals and vitamins. Can be used year-round.

## Fescue-Phos<sup>®</sup>

Stand-alone mineral supplement containing Tasco<sup>®</sup>, a seaweed meal that research suggests improves fiber and organic matter digestibility. Helps reduce the effects of heat stress and fescue toxicosis.

## Mineral-lyx<sup>®</sup>

All-season mineral supplement for grazing cattle. Designed to complement the mineral composition of grass or legume forages.

TYPICAL NUTRIENT ANALYSIS	<b>IGR MAX<sup>™</sup></b>	<b>ROL YX<sup>®</sup> MAX</b>	<b>Mineral-lyx<sup>®</sup></b> with <b>ClariFly</b>
Crude Protein, min	—	—	4.0%
Crude Fat, min	3.0%	3.0%	3.0%
Calcium (Ca), min	5.0%	5.0%	3.5%
Calcium (Ca), max	6.0%	6.0%	4.5%
Phosphorus (P), min	5.0%	5.0%	4.0%
Salt (NaCl)	None Added	None Added	None Added
Magnesium (Mg), min	5.0%	5.0%	3.0%
Cobalt (Co), min	30 ppm	30 ppm	5 ppm
Copper (Cu), min	1,000 ppm	1,000 ppm	500 ppm
Iodine (I), min	50 ppm	50 ppm	25 ppm
Manganese (Mn), min	4,000 ppm	4,000 ppm	2,000 ppm
Selenium (Se), min	13.2 ppm	13.2 ppm	8.8 ppm
Zinc (Zn), min	3,000 ppm	3,000 ppm	1,500 ppm
Vitamin A, min	200,000 IU/lb	200,000 IU/lb	100,000 IU/lb
Vitamin D <sub>3</sub> , min	20,000 IU/lb	20,000 IU/lb	10,000 IU/lb
Vitamin E, min	200 IU/lb	200 IU/lb	100 IU/lb
	Contains <b>BIOPLEX<sup>®</sup></b> organic trace minerals.	Contains <b>BIOPLEX<sup>®</sup></b> organic trace minerals.	
Prevents HOUSE FLIES			
Prevents HORN FLIES			
Prevents FACE FLIES			
Prevents STABLE FLIES			

## IGR MAX<sup>™</sup>

Mineral supplement to help prevent adult horn fly emergence from manure of treated cattle. Contains Altosid<sup>®</sup> Insect Growth Regulator for continuous feeding to cattle through the horn fly season.

## ROL YX<sup>®</sup> MAX

Mineral supplement containing Rabon<sup>®</sup> Oral Larvicide. Supplemental mineral and fly protection for cattle and horses on pasture.

## Mineral-lyx<sup>®</sup> with **ClariFly**

Prevents the emergence of house flies, horn flies, face flies and stable flies from manure of treated cattle. Prevents the emergence of house flies and stable flies from manure of treated horses.

Altosid<sup>®</sup> and ClariFly<sup>®</sup> are registered trademarks of Welmark International. Rabon<sup>®</sup> is a registered trademark of Bayer Animal Health.

