

## Summary

Chromium is recognized as an essential nutrient.

Stress often leads to an increase in glucose metabolism, which in turn leads to an increased need for chromium.

The key to whether or not diets provide sufficient available chromium is stress.

Benefits have been shown in livestock trials using **DINAKROME** organic chromium in stressed animals.

Stressed animals show increases in cortisol, which is reduced when supplemental organic Cr is added.

Authorized Distributor:



## Recommended Dose Levels **DINAKROME** Mix with feed at feed mixer

| Species      | Feed Type     | Grams/ton   |
|--------------|---------------|-------------|
| Swine        | Starter       | 200- 600 *  |
| Swine        | Grow/Finisher | 400-1000 ** |
| Poultry      |               | 400-1000    |
| Dairy & Beef | Cattle        | 400-1000    |
| Horses       |               | 400-1000    |

\* Use before any vaccination program

\*\*Use before, during, and after stress

### ACTIVE INGREDIENTS:

Minimum 300 ppm organic chromium  
Minimum total dissolved solids Sarsaponin 5%  
Minimum Crude Protein 8%  
Maximum moisture 12 %

### PACKAGING

25 Kg. paper bags or plastic pails

### STORAGE

Keep containers closed when not in use, store in cool, dry area out of sunlight.

**DINATEC INC.**



**MADE IN USA**

*Call or send order*

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# DINAKROME

## Advanced Chromium Utilization Technology



*"A Dynamic Approach to Nutri-Agri Product  
Research and Technology Development"*

# What is **DINAKROME** ?

- **DINAKROME** is an organic chromium preparation.
- The ideal source of the essential trace element *Chromium*.
- **DINAKROME** is an organic preparation consisting of yeast chromium, Yucca Shidigera extract and a specially selected hydrated alumino silicate which is of great practical importance to the feed industry.
- It's importance was recognized following in depth nutritional studies into the bioactivity of chromium in human health and nutrition.



**DINAKROME** organic chromium, has an absorption efficiency 40+%, 10 to 20 times higher than inorganic chromium. Chromium is a nutrient not a therapeutic agent or drug, therefore supplementation will benefit when marginal deficiency occurs. The urease enzyme inhibitor component reduces the rotation of intestinal portal tissue which makes more nutrients available for growth and feed conversion and aids the rumen function by promoting microbial ammonia uptake. This equates in increased milk production and better growth and feed conversion

## What it does

- **DINAKROME** offers a high quality useable and available source of chromium for swine, cattle (dairy and beef) and horses.
- It decreases the level of blood cortisol indicating a reduction in the effects of stress, as well as potentiation of insulin to control blood glucose levels, thus preventing diabetes.



## Swine Benefits

Research has found benefits in swine production to be related to performance improvements, particularly increased meat deposition.

An experiment at Louisiana State University shows improvements in carcass quality with the addition of organic chromium to the diet. Not only was lean increased and fat decreased, but serum cholesterol was also reduced. The benefits of the added chromium were substantial and the work has given reason for further research to define more accurately the responses of pigs to dietary chromium.

**DINAKROME**(300 ppm organic Cr) is the ideal supplement, at the rate of 300 gm/ton for swine.

Increasing muscle development, reducing back fat, and serum cholesterol.



## BENEFITS FOR HORSES



- Will reduce stress levels
- Increase supply of physiological oxygen levels
- Promote stronger immune system
- More resistance to disease
- Better responses to vaccines
- Better milking characteristics for Mares
- Healthier, stronger foals

## Cattle Benefits

**DINAKROME** helps to:

- Increase weight gains
- Increase milk protein levels
- Lower serum cortisol
- Increase immunoglobulin levels
- Reduce days to first heat
- Increase cell mediated immunity
- Increase antibody response to commercial live attenuated vaccines.



## Cattle Production Benefits

- 24% increase in live weight gain during the first 28 days in feedlot
- 82% increase in live weight gain during the first 28 days in feedlot among heavy stressed cattle
- Increased milk protein in first lactation cows
- Reduced days to first heat in older lactation cows
- Increased antibody response to a commercial live attenuated vaccine
- Increase in immunoglobulin levels
- Early lactating cows receiving supplemental organic Chromium had superior cell mediated immunity

