



# PHI-CHROME™

Chromium Tripicolinate

*...superior mineral products for today's nutritional challenges*

## Guaranteed Analysis:

Chromium Tripicolinate 0.04% Cr (400 ppm)  
Chromium Tripicolinate 0.40% Cr (4000 ppm)

## Phi-Chrome™ Characteristics:

- Organic source of chromium tripicolinate for swine
- Two concentrations available (0.04% and 0.40%)

## Chromium Functions:

- Helps improve glucose metabolism
- Tripicolinate is more bioavailable in swine tissue than other organic chromium sources
- Helps reduce mortality
- Helps increase muscle percentage

## Chromium Deficiencies:

- Impaired glucose tolerance
- Relative insulin resistance
- Peripheral neuropathy
- Metabolic encephalopathy

\*Chromium is regulated at 200 ppb in complete feed.

\*Absorption of chromium from feedstuffs is minimal (0.5-2.0%), and although chromium deficiencies in animals are rare, supplementation ensures adequate levels.

Chromium Tripicolinate - 0.04%

<b>Product Description</b>	Chromium 0.04% premix from chromium tripicolinate. Supplement for all classes of swine
<b>Label Guarantees</b>	Calcium (Ca) minimum.....35.00% Calcium (Ca) maximum.....40.00% Chromium (Cr) minimum,from tripicolinate.....400ppm
<b>Ingredients</b>	Calcium Carbonate, Chromium Tripicolinate, Mineral Oil
<b>Physical Description</b>	Color.....Off-White Bulk Density Loose.....85 lb/cu ft <sup>3</sup> Bulk Density Tapped.....44 lb/cu ft (642 kg/cu m)
<b>Typical Analysis</b>	Cr.....400 ppm
<b>Typical Sieve Profile</b>	+40 Mesh.....1% 40 x 60 Mesh.....26% 60 x 80 Mesh.....22% 80 x 100.....13% 100 x 200 Mesh.....22% -200 Mesh.....16%

**Directions for Use**

Reproducing Sows: Feed continuously, at the rate of one lb per ton of complete feed, during gestation, lactation, and breeding.

Replacement gilts: Use one lb per ton of complete feed beginning at 50 to 60 lb body weight and feed continuously until gilts enter the sow herd. Otherwise, begin supplementation as soon as allowed by production practices.

Growing-finishing pigs: use one lb per ton of complete feed beginning at 50 to 60 lb body weight and feed continuously until pigs are marketed.

To be included in swine rations at no more than one lb per ton of complete feed. One pound per ton will provide 200 ppb (parts per billion) chromium from chromium tripicolinate.

**Shelf Life/Storage**

Keep in original packaging in a dry place and avoid sunlight. To preserve product quality, do not stack pallets or totes.

Chromium Tripicolinate - 0.4%

<b>Product Description</b>	Chromium 0.4% premix from chromium tripicolinate. Supplement for all classes of swine
<b>Label Guarantees</b>	Calcium (Ca) minimum.....35.00% Calcium (Ca) maximum.....40.00% Chromium (Cr) minimum,from tripicolinate.....400 ppm
<b>Ingredients</b>	Calcium Carbonate, Chromium Tripicolinate, Mineral Oil
<b>Physical Description</b>	Color.....Red Bulk Density Loose.....85 lb/ft <sup>3</sup> Bulk Density Tapped.....98 lb/ft <sup>3</sup>
<b>Typical Analysis</b>	Cr.....4000 ppm
<b>Typical Sieve Profile</b>	+40 Mesh.....1% 40 x 60 Mesh.....26% 60 x 80 Mesh.....22% 80 x 100.....13% 100 x 200 Mesh.....22% -200 Mesh.....16%

**Directions for Use**

Reproducing sows: Feed continuously, at the rate of 0.10 lb per ton of complete feed, during gestation, lactation and breeding.

Replacement gilts: Use 0.10 lb per ton of complete feed beginning at 50 to 60 pounds body weight and feed continuously until gilts enter the sow herd. Otherwise, begin supplementation as soon as allowed by production

practices.Growing-finishing pigs: Use 0.10 lb per ton of complete feed beginning at 50 to 60 pounds body weight and feed continuously until pigs are marketed.

To be included in swine rations at no more than one tenth of a pound per ton of complete feed. One tenth of a pound per ton will provide 200 ppb (parts per billion) chromium from chromium tripicolinate.

References Available Upon Request