Growmax

The Organic Chromium for Animal Performance

GrowMax, the key component of insulin activation

Chromium is known as an essential component of glucose tolerance factor (GTF) which enhances insulin activity, and results stimulation of glucose metabolism, protein synthesis, and lipolysis.

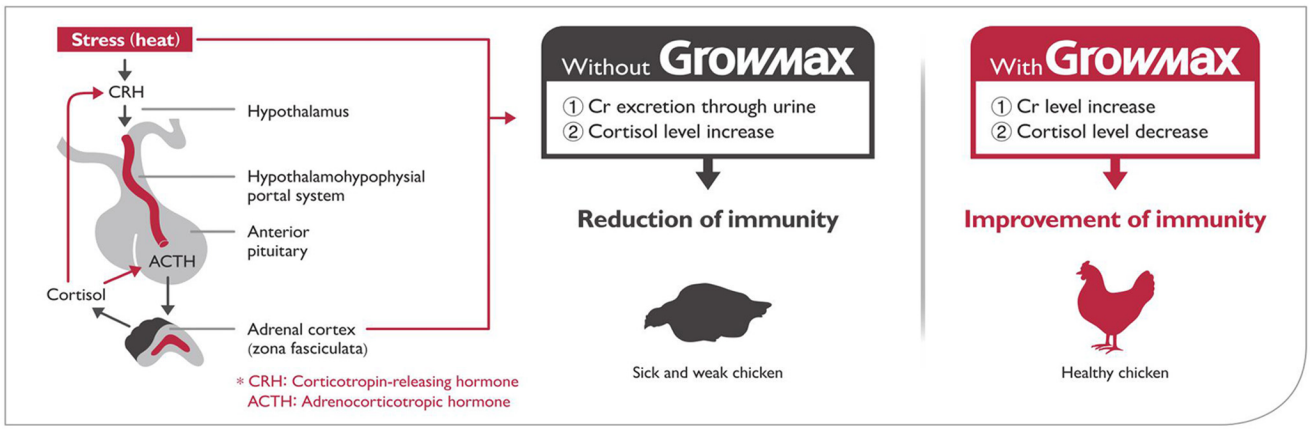
Chromium is a mineral directly related to insulin function. Insulin is the chief hormone responsible for the stimulation of the transport of glucose, amino acids, fatty acids and minerals into the cells; biosynthesis of molecules and cell growth. It enhances muscular development, liver function and reproductive parameters in animals.

Chromium improves meat quality as a result of increased uptake of glucose and amino acids by muscle cells.

Chromium increase number of offspring as a result of increased frequency of luteinizing hormone and progesterone released by the brain and corpus luteum, respectively.

GrowMax under stress condition

Under stress condition such as high temperature, chromium is excreted through urine and cortisol level increases. Cortisol is a corticosteroid hormone which is called as the stress hormone. Increase of cortisol level can result the reduction of immunity in animals. Supplementation of GrowMax will increase chromium level and suppress cortisol level. As a result, GrowMax helps to improve immunity of the animal.



Powerful, but safe organic source of chromium

- Several chromium sources exist such as **chromium picolinate,** chromium methionine, chromium propionate, chromium yeast, chromium nicotinate, and chromium chloride.
- Chromium picolinate has better bioavailability and stability compared to other chromium sources.
- Chromium picolinate is the chromium source which is approved by FDA. (USA)
- **GrowMax is the chromium picolinate source.**

Benefits of GrowMax in poultry

- Improve feed efficiency, production performance, and meat quality in broiler. (Cupo et al., 1987; Jackson et al., 2008)
- Ameliorate heat stress in broiler. (Amatya et al., 2004; Lee et al., 2003; Saikat et al., 2007)
- Enhance egg production and egg quality. (Sahin et al., 2001; Sahin et al., 2002)
- Improves muscle development and decreases peripheral fat deposition through insulin's role in nutrient metabolism.
- Improves breeder performance by increasing number of offspring, enhancing physiological functions of the reproductive organs, decreasing culling percentage and longevity of breeders.
- Improves male performance by enhancing sperm production.

Applications and recommended use of GrowMax

- GrowMax contains:

Chromium	Min. 400 ppm	Chromium Picolinate	Min. 0.3 %

- Recommended dosage: 500 g GrowMax / MT of feed for all species of poultry.

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