

# • TECHNICAL BULLETIN # 38 •



## SUPPLEMENTS FOR ENERGY PRODUCTION

Adenosine triphosphate (ATP) is an organic compound that provides energy for various processes within the body, including muscle contraction. The body, given a healthy diet, will be able to synthesize ATP for its energy needs. There are various natural and mineral supplements that can be used in order to stimulate the production of ATP, this can improve muscular function during fights.

What supplements can we give to improve ATP production in our gamefowl? Gotu kola from Levimin GK, Ginseng from Red Gel Forte, and Butaphosphan from Cophorza. Supplementation with these can help your stags and cocks to stay in the fight longer, giving them more energy throughout the fight.

Gotu kola protects damage to the mitochondria- where ATP is produced (Gray et al, 2018). Safeguarding this 'machinery' ensures the uninterrupted production of ATP.

Ginseng is a herb that's been used since ancient times to increase overall energy. It has been proven in studies to be able to stimulate the production of more ATP resulting in higher energy and enhances endurance (Shin et al, 2020).

In the production of ATP, phosphorus is needed, but not just any kind of phosphorus. What does this mean? You need to supply the bioavailable or "useable" type of phosphorus for efficient ATP production. Butaphosphan is the useable phosphorus or 'bioavailable' phosphorus that speeds up the production of ATP, keeping your gamefowl at the top of their game even during fights (Hasi et al, 2004).

### LEVIMIN GK

- Proper bone development
- Fortified with Gotu Kola, Lecithin & Royal Jelly
- High Calcium, balanced Phosphorus

**DOSAGE AND ADMINISTRATION:**  
Fightingcocks: 10g per kg of mixed feeds or 1 teaspoon per 4 cocks.



### RED GEL FORTE PLUS

- Improves speed and aggressiveness
- Increases endurance and stamina in fightingcocks
- Improves muscle coordination
- Prevents fatigue during training
- With Vit. A which acts as anti-oxidant
- With Zinc which acts as anti-stress and boosts immune system

**DOSAGE AND ADMINISTRATION:**  
For 1 week conditioning:  
Give 1 capsule orally 4 days before the fight.  
For 1 month conditioning:  
Give 1 capsule orally or mix with the feed every other week before the fight.



### COPHORZA

- Strong Protection against Anemia, Stress and Infections During Training and Conditioning
- Improves Stamina and Muscle Efficiency
- Sustains energy

**DOSAGE AND ADMINISTRATION:**  
By intramuscular or intravenous injection 0.5mL every other week or as prescribed by a veterinarian.

