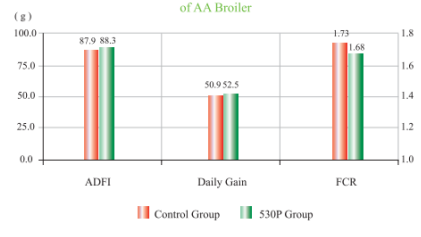
Trial Report

Trial Design: 288 healthy 1 d AA broiler, each group has 8 replications.
Trial Period: 42 days
Control Group: Basal diet
530P Group: Basal diet + 200 g/t 530P

Figure 1 Effect of Creazyme 530P on Growth Performance of AA Broiler



- **Application:** All growing stages of swine & poultry
- **Dosage:** 100-200 g/t
- **Package:** 25 kg/bag
- **Storage:** It is recommended to be stored in a ventilated, cool and dry place.
- **Shelf Life:** 12 months

Creazyme — The First Brand of Formula Enzyme

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CRVAB®
Create Value Biology

New Concept of Formula Enzyme
Efficient Decomposition Ability
Superior Application Effect

CRVAB Bio-Tech Group

CRVAB Bio-Tech Group relies on domestic and international well-known biological technology research institutions. We are specialized in the application of animal husbandry through technical integration and intellectual property transfer by CRVAB R&D Center. CRVAB Bio-Tech Group produces different kinds of single remarkable enzymes and customized compound enzymes by adopting the latest complex enzyme formulation theory.

Aiming at type and content of anti-nutritional factors in corn-soybean (miscellaneous) diet, combining efficient mannanase, xylanase and cellulase as core enzyme, Creazyme 530P, mainly used in corn-soybean based diets, adopts the latest mannanase combined enzyme technology, the integrated enzyme technology combined xylanase with cellulase to ensure the effect of Creazyme greater than that of the traditional simple mixed of single enzymes.

In view of soaring price of domestic protein raw materials, the content of digestible protein in diet is not enough to meet nutrition requirements. Therefore, CRVAB Bio-Tech Group has successfully developed a new type of efficient protease-CVB100, which has a broad pH advantage ranging from acidic to neutral scope. The protease exhibits super degradation ability from fish meal to soybean meal, especially to unconventional protein raw materials (ie. rapeseed meal, cottonseed meal), which help to improve digestion and absorption of protein in feed completely. For miscellaneous meal, the protein could better be utilized.

CRVAB R&D Center has successfully developed alpha-amylase, which has been widely applied in Creazyme enzymes, to improve digestion and absorption of starch in corn and available energy value, avoid fecal feed, and increase weight gain.

Advantages of CRVAB Bio-Tech Group

CRVAB R&D Center

CRVAB Production Base

- CRVAB R&D Center has united domestic and international dominate strains and fermentation research institutes, set up the domestic first-class biotechnology and fermentation research team led by the domestic well-known experts, and equipped with domestic advanced research and development equipment and test hardware facilities;
- Our modern fermentation bases were built in dry and cool northeast of China, adopting automatic efficient submerge liquid fermentation technology. With the largest domestic feed enzyme fermentation amount, our company produces the lowest cost enzymes;
- We produce different kinds of enzymes with different activities and size in accordance with customer requirements and optimal application effect, aimed to increase the effective particle of active enzymes, the best homogenity, the efficient contact chance between enzymes and substrate, so as to improve degradation effect to substrate;
- According to the long-term accumulation of the core database, the corresponding enzyme spectrum and activity were formulated based on the diet formula and anti-nutritional factors content exactly, to make sure select and use enzymes accurately.

Charateristics of 530P

- Degrade anti-nutrient factors of mannose in feed, eliminate intestinal viscosity, reduce intestinal flatulence and improve energy utilization of feed;
- The collocation of mannanase, cellulase and xylanase in Creazyme 530P can make rapid and synergistic degradation of anti nutritional factors in cereal cell wall;
- CVB100 can enhance digestion and absorption of crude protein in soybean and other protein raw materials, improve protein utilization in feed effectively;
- Amylase was supplemented to Creazyme 530P to improve digestion and absorption feed starch, feed metabolizable energy value, and increase weight gain;
- Xylanase and cellulase was produced by adopting integrated enzyme technology, which improves their coordination and cooperation effect in feed and strengthen enzyme application effect;
- Creazyme 530P possesses the outstanding enzymology performance and efficient ability to degrade complex substrate, it is resistant to high temperature and humidity. Furthermore, it also has good tolerance to pepsin and trypsin, which is suitable to take action in animal intestine.

Product Ingredients

Protease, Xylanase, Beta-Mannanase, Cellulase, Beta-Glucanase, Alpha-Amylase

Product Functions

1. Degrade anti-nutritional factors in feed, reduce chyme viscosity and release nutrients wrapped by cell wall;
2. High activity of protease and amylase, improve crude protein and starch absorption and utilization effectively, increase feed nutritional value;
3. Improve growth performance, in terms of weight gain, egg production, and feed conversion ratio;
4. Reduce diarrhea rate, ammonia taste and odor in animal house, and the occurrence of the disease;
5. Stabilize feed quality, prevent fluctuation caused by difference of raw materials.