

**BEST GENERATION PHYTASE**

**CIBENZA<sup>®</sup> PHYTAVERSE<sup>®</sup>**



**NOVUS<sup>®</sup>**

SOLUTIONS SERVICE SUSTAINABILITY<sup>™</sup>

## WHAT IS CIBENZA® PHYTAVERSE?

**CIBENZA® PHYTAVERSE®** is the next generation, intrinsically heat-stable and fast-acting phytase technology that increases the availability of phosphorous in poultry diets. By efficiently liberating it from phytate in feedstuffs almost instantly upon indigestion, CIBENZA PHYTAVERSE makes phosphorous more available to the animal and minimizes its excretion as waste. This leads to better feed efficiency and feed cost savings for poultry producers.

## CIBENZA® PHYTAVERSE®

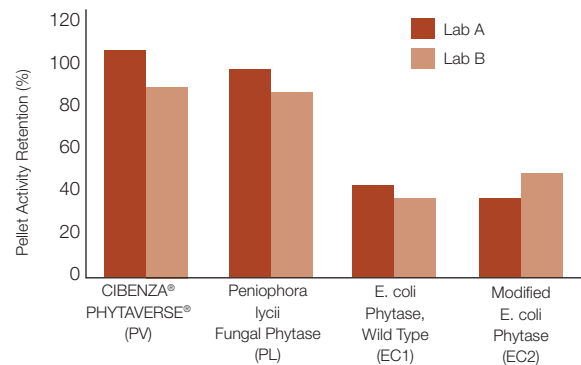
### Characteristics



#### Heat Stable

Even though noncoated, intrinsically heat stable up to 90°C to endure pelleting\*

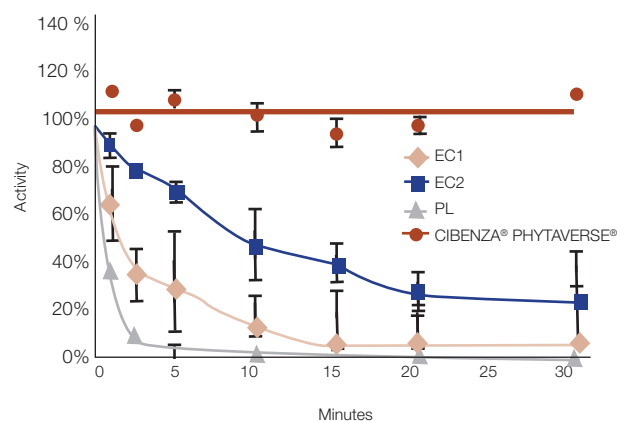
Figure 1. Phytase Activity Retention After 85°C Pelleting\*



#### Gastric Stable

Stable in the presence of digestive proteolytic enzymes (pepsin) and at a very low pH (1.5) maintaining full activity for an extended period of time, sustaining performance throughout the digestive tract

Figure 2. Gastric Stability of Phytases\*



(Stimulated Gastric Conditions pH 1.5 and pepsin)



### Fast-Acting

Non-coated, so it starts acting immediately upon ingestion towards phytate degradation, reaching 100% of hydrolytic activity in as little as five minutes compared to other products which may take up to 20 minutes.

Figure 3. Time Release for Phytase Activity\*

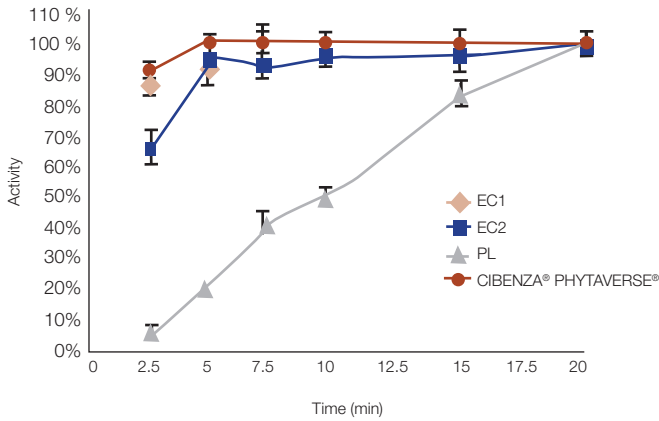
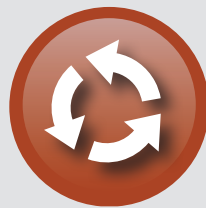
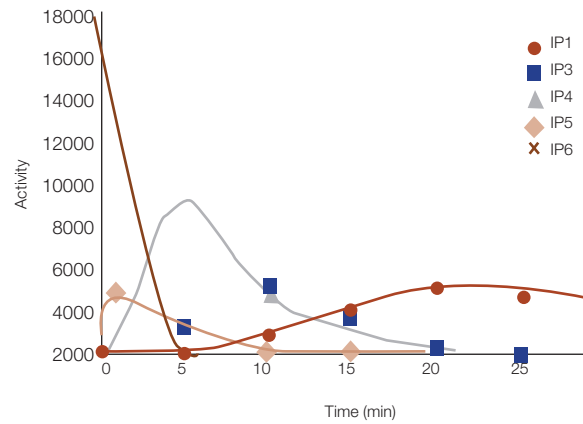


Figure 4. CIBENZA® PHYTAVERSE® IP6-IP2 Hydrolysis



### Activity at Low Phytate Concentrations

Better release of phosphorus even at low soluble phytate concentration



### Anti-Nutritive Reduction

Optimized hydrolysis of phytic acid from IP5 and IP6 which could otherwise lead to heavy mucus production, utilizing and blocking the absorption of important nutrients

Figure 5. Activity of Phytases at Different Concentrations of Phytic Acid\*

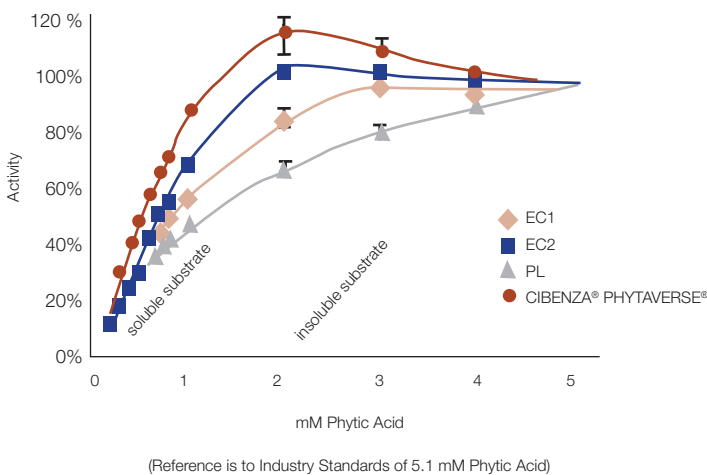
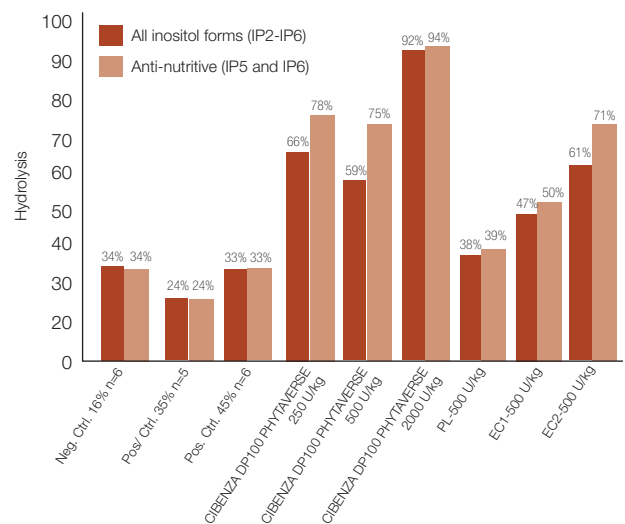


Figure 6. Phytic Acid Hydrolysis in Gizzard\*



(Based Feed IP6 Concentration Baseline)

# Benefits in

## Poultry Diets

Because of its unique characteristics, CIBENZA® PHYTAVERSE® has superior efficacy when compared to a variety of phytase enzymes on the market.

Figure 7. Phytase Effect on Body Weight at 21 Days of Age

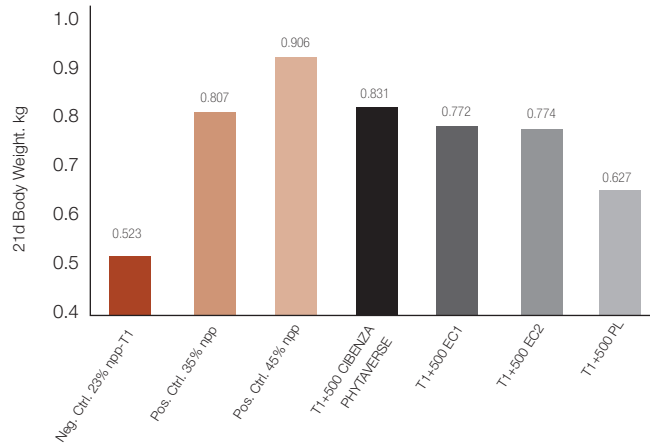
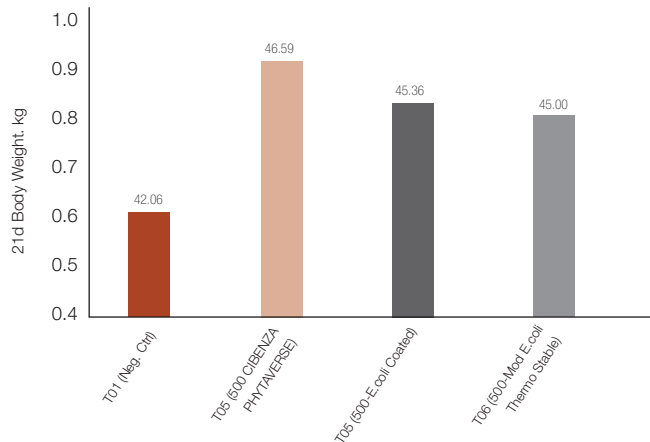


Figure 8. Phytase Effect on Tibia Ash Percentage at 42 Days of Age



Source for Figures 7-8:  
Manangi et., 2014 International  
Poultry Scientific Forum

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