

# Enervance

(Enzyme; Advance Energy & Feed Value)



## Features

- Energy + Advance (Enhance affinity for the substrate through SSF (solid state fermentation))
- Manufactured by AASF(Active aero solid fermentation)-
- Combination of enzymes (cellulase,  $\beta$ -glucanase, xylanase+ peptidase, amylase)- Natural combination of enzyme through a natural and oriental way of fermentation
- Enhance digestibility and improve performance [Using natural fermentation media (feed ingredient; meals and grains)].

## Remarks

### Solid (grain-based) fermentation provides:

- Various enzyme complexes naturally occur
- Preliminary experiences over feed grains
- Biological affinity onto feed grain
- Delivered enzyme specificity throughout GIT
- Packaging : Paper bag 20kg

## Contains and Enzyme Activity

- Cellulase  $\geq$  5,000 U/g
- Xylanase  $\geq$  500 U/g
- Protease, Amylase,  $\alpha$ -Galactosidase (Not guaranteed)

## Technology used: SSF (Solid State Fermentation)

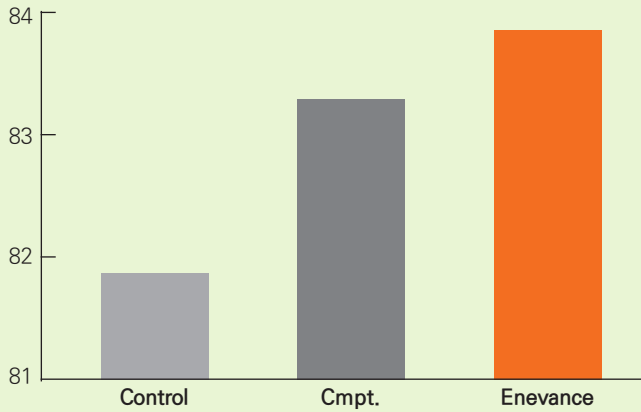
### Advantages

- Provides natural enzyme complexes that are biologically compatible with feed grains.
- Yields enzyme activity up to 1,800x higher than liquid fermentation (e.g.,  $\alpha$ -Amylase: 640 U/ml vs. 19,000 U/g).
- Increases enzyme affinity up to 327x compared to liquid-state fermentation.

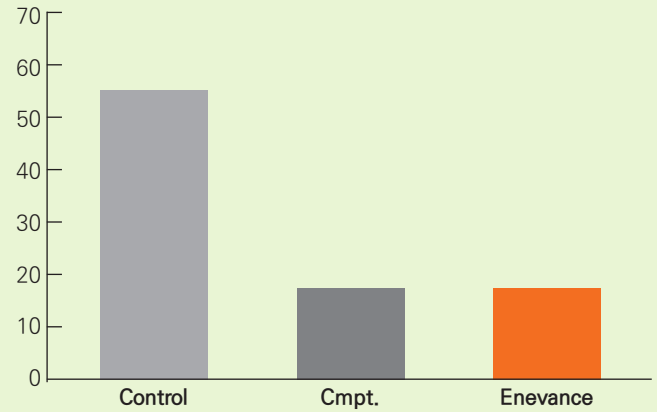
## Figures: Eneavance results on poultry-broilers

(Sungkyunkwan University, Korea)

### Energy Digestibility



### Gas Control



## Advantage of Eneavance

### 1. Enhanced Nutrient Utilization

- Breaks down NSP, improving energy availability and reducing anti-nutritional factors.
- Improves protein and starch digestibility.
- Reduced ammonia gas levels, improving gut health.
- Synergistic enzyme action ensures better degradation of feed components.

### 2. Enzyme Activity & Performance:

- Effective in degrading cell wall components like cellulose and hemicellulose.
- Increases sugar release from grains and meals (e.g., soybean meal, corn, wheat, wheat bran, barley, rice bran, oat).
- Significant improvement in in-vitro digestibility of corn, wheat, barley, etc.

### 3. Trials & Research:

- Verified in studies by Dankook University, Sungkyunkwan University, Seoul National University, and NCSU (USA).
- Shows significant enhancement over competitive products in feed trials.

**Recommended dosage:** Poultry: 0.1~0.2% of compound feed

\*Note: For the full data on the product, please refer to the detailed materials.