

Feeding trial

Improved FCR at market age regardless of the AA density when feeding HP AviStart



Summary

Partial replacement of SBM with **HP AviStart** during the starter phase improved BWG and FCR at the three significant market ages (d35, 42 and 49). Results suggest a carry-over effect of **HP AviStart**.

Objective(s)

To show better performance of HP AviStart at two different amino acid densities compared to SBM.

Results

- No interaction between protein source and AA density ($p > 0.05$) on the three significant market ages (day 35, 42 and 49). Therefore, graphs show the general effect of HP AviStart in starter feed, regardless of the AA density level in the diets.
- Day 49 mortality adjusted FCR was improved by 6 points when chickens were fed the 100% amino acid density level diets compared to the 88% amino acid density level diets.
- BWG was improved by 60 and 130 g/bird at day 42 and 49 when fed HP AviStart compared to SBM (figure 1).
- On day 35, 42 and 49, mortality adjusted FCR were improved by 0.6, 1 and 2 points, respectively, when replacing part of the SBM in starter diets with 5% HP AviStart (figure 2).



Image from Hamlet Protein database.
Not specific for this trial.



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HP AviStart improves body weight gain at the significant market ages.

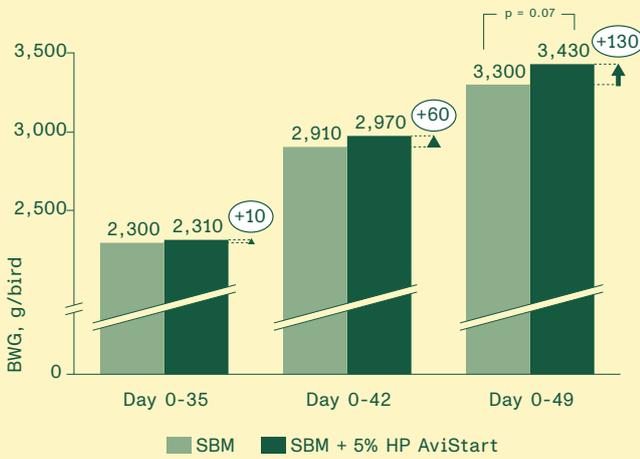


Figure 1. Body weight gain (BWG, g/bird) day 0-35, 0-42 and 0-49 for broiler chickens fed either SBM or SBM + 5% HP AviStart in the starter phase (day 0-14).

Feeding HP AviStart improves FCR throughout the rearing period.

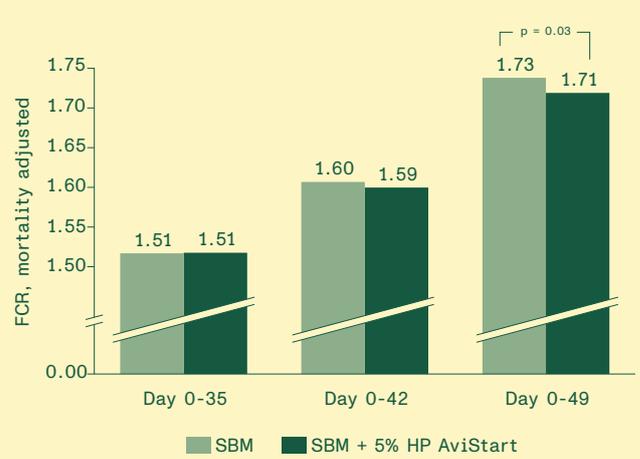


Figure 2. Mortality adjusted feed conversion ratio (FCR) day 0-35, 0-42 and 0-49 for broiler chickens fed either SBM or SBM + 5% HP AviStart in the starter phase (day 0-14).



Image from Hamlet Protein database.
Not specific for this trial.

Materials and methods

1104 Cobb 500 male broiler chickens (41.2-41.8 g/bird).
 12 replicates/dietary treatment, 23 birds/replicate.
 2x2 factorial design: two AA densities (100% or 88% of genetic guidelines);
 two protein sources (SBM or HP AviStart).
 SBM or SBM + 5% HP AviStart during starter phase (day 0-14), same SBM diet during grower and finisher periods. AA density levels of 88% or 100% throughout the trial.
 Low and high density diets contained 1.07% dLys and 1.22% dLys, respectively.

Location
 University of Georgia – Poultry Research Centre, US, 2019.