

Nutritional value of a corn DDGS and effects on the growing performances of broiler chickens.

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Author(s) : [Skiba, F.](#) ; [Métayer, J. P.](#) ; [Clavé, H.](#) ; [Quentin, M.](#)

Author Affiliation : ARVALIS - Institut du végétal, 21 chemin de Pau, 64121 Montaut

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Conference Title : [World Poultry Science Association \(WPSA\), Proceedings of the French Research Days, St Malo, France, 25-26 March 2009.](#)

Abstract : In order to prepare the arrival of dried distillers grain with solubles from corn (cDDGS) in the South Western part of France, we have conducted digestibility trials on a cDDGS batch, produced in Spain, with the same type as the new South Western bioethanol factory. The AMEn was measured in adult and in broiler chickens at 21 days of age. Moreover, 96 naked neck slow growers were fed with four diets containing 0, 5, 10 or 15% of the same cDDGS batch performed between 32 and 60 days of age. The cDDGS batch was characterized by 28.2% DM crude protein content, a 0.81% DM lysine content and a 15.9% DM ash content. The later was linked to a high gross energy content compared to regular DDGS. The measured AMEn was 3580 kcal/kg DM in adult cockerels which was significantly higher than the broiler chickens value (3030 kcal/kg DM). In the growth trial, a degraded feed conversion ratio (FCR) was observed from 10% of cDDGS in the feed. It was associated with higher feed particle sorting starting at 10% of cDDGS in the feed. These results demonstrate one more time the high variability of cDDGS particularly in terms of amino acid content. In order to better use this new type of feedstuff it will be necessary to precisely characterize finely the coproducts produced by each bioethanol factory and precisely the incorporation limits of these products.

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