The relation between the utilization of treated poultry wastes as feed ingredient and accumulation of heavy metals in animal tissues

By

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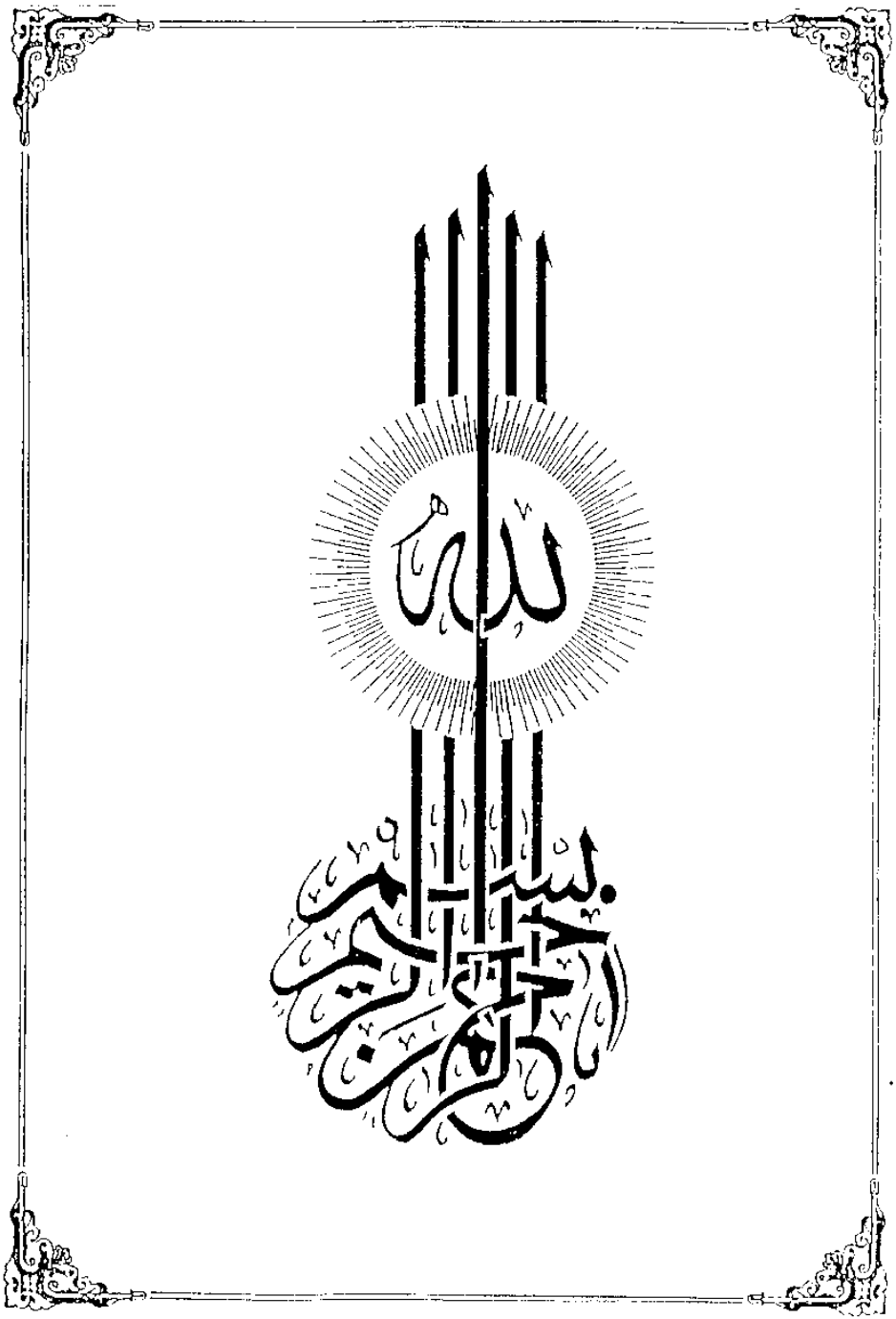

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ABSTRACT

Hanaa Hashem El - Amary . Study of the relation between the utilization of treated poultry wastes as feed ingredient and accumulation of heavy metals in animal tissues . Unpublished Doctor of Philosophy , University of Ain Shams , Institute of Environmental Studies & Research , Department of Agricultural Sciences , 1995.

This study was canied out to investigate the effect of inclusion of different levels of broiler litter (0, 15 and 30% as a percent of dry matter) in the rations of growing (18 kg live body weight) and mature (50 kg live body weight) ewes according to tommi, (1963). Generally, in growing period, broiler litter inclusionn in the ration improved average daly gain, natrients digestibilities and nutritive values of the rations. Zinc and copper concentration in the rations and blood serum increased by increasing levels of broiler litter. Additionally, protein fractions in blood serum increased as was the case with serum urea and creatinine by broiler litter addition. The highest wool yield was recorded for 15% broiler litter inclusion in the ration. The same attitude has been recorded in most metabolites in mature period. Results suggested the possibility of including broiler litter in the ration of ewes safelg and to the level of 30% as percentage of the diet dry matter

Key words: Broiler litter , Heavy metal , Growth , Serum blood , Lambs , ewes.

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