

عنوان مقاله:

(Evaluation of silver residues accumulation in tissues of Broilers treated with nanosilver using MNSR (A Clinical Trial

محل انتشار:

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نویسندگان:

A.R. Nabinejad - Agricultural Research Organization, Amir Hamzeh City, Isfahan, Iran

V. Noaman - Agricultural Research Organization, Amir Hamzeh City, Isfahan, Iran

M. Khayyam Nekouiee - Faculty of Biological sciences, Biotechnology Research and Development Center, Tarbiat
Modares University

خلاصه مقاله:

Nanoparticles of silver were treated as clinical trials in some broiler farms for its disinfecting characters in ۴ broiler farms during growing period. The nanosilver were used orally and inhalatory in amount of ۲-۴ ppm and ۴۰ ppm respectively. Some samples of Breast muscle, Femora muscle, Heart, Gizzard, Liver, Skin, Spleen, Lung, Kidney and Cloacal feces were collected randomly in slaughterhouse. The silver nanoparticles residues accumulation in samples were examined by miniature neutron source reactor (MNSR) with a high specificity and sensitivity in ppb levels. Regarding to the results the silver residues were detectable in all the samples (>131 ppb), The average of residues in ppb level in examined samples were as ۱۳۱(a) for Spleens, ۱۳۲(a) for Gizzards, ۱۴۴(a) for Hearts, ۱۴۷(a) for Kidneys, ۱۶۰(a) for Lungs, ۱۶۸(a) (a)for Breast muscles, ۱۷۲(a) for Femora muscles, ۱۸۵(a) for Livers, ۱۹۴(a) for Skins and ۵۵۷(b) for cloacal Feces. Comparison of averages among treatments by ANOVA (Duncan) ($p<0.05$), showed that cloacal feces (۵۵۷ ppb) has significant different with other treatments (different subscripted letter-b). Regarding to the results, nanosilver usages were limited just for surfaces of the farms by Iranian Veterinary Organization for public health opinions.

کلمات کلیدی:

Nanosilver, Broiler, Evaluation, Silver, Residues, MNSR

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