

Nanotechnology Applications in Poultry Farms

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Objectives:

The use of nanotechnology in safety and biosecurity is vital within the poultry farms through the use of filters of the nanoparticles working on well water filtration and decontamination of protozoa and fungi, heavy metals, as well as their use in the treatment of mycotoxins in feed.

Method:

1-Manufacturing nano-scale filters to get rid of water contamination by heavy metals, fungi and organic materials.

2-The synthesis of nano-materials was used as an antidote Mycotoxins.

Results:

The water purification from heavy metals, fungi, protozoa and the removal of feed contamination from mycotoxins were carried out

Conclusion:

The procedures and precautions in the safety and biosecurity inside the lab for preparation of nanomaterials were applied.

Outcome:

Gain experience in the manufacturing process filters to purify water wells and decontamination of mycotoxins as well as their use in poultry farms and associated with the safety of the food chain from farm to fork