

## Study of Drug Resistance in *Salmonella* Spp. Isolated from Native Eggs of The Areas Around Marvdasht, Iran

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**Background & Objectives:** *Salmonellas* are the short bacteria, gram negative, without capsule, facultative aerobic and anaerobic. Those have high resistance against physical and chemical factors. *Salmonella* causes white bacillus diarrhea in Avian. Its transferring in Avian is vertical and horizontal. In human, it causes food poisoning too. The egg is the most important source of salmonella. The native eggs have been collected and transferred to the lab for studying the contamination of them.

**Methods:** These eggs were collected from the areas around marvdasht (Iran). In this research the pattern of drug resistance of bacteria is studied. The shell of eggs is purified with Ethanol 80%, and then the Contents of five eggs are mixed in a dish and were incubated with soab in Selenite-f. After 24 hour incubation at 37°C the sample of Selenite-f was transferred to *Salmonella spp* and after incubation at 37°C was analyzed in the terms of suspected colonies to *Salmonella*. The suspected colonies were inoculated into lysine decarboxylase broth and TSI agar environment. The bacteria which have reactions were related to salmonella, and they were analyzed by the PCR test, with special primer for *Salmonella spp*, such as *S. enteritidis* and *S. typhimurium*.

**Results:** The results of this study indicated that the Thirteen samples of mixed eggs (at least 4.3% of eggs) were contaminated with salmonella of serotype *S. enteritidis*. Among the separated *Salmonellas* 95 % were resist to Ampicillin, 19.5% to Tetracycline, and 51.9% to Kanamycin, but all of them were sensitive to Gentamicin light in this anti biotic resistance test.

**Keywords:** *Salmonella spp*; *Salmonella enteritidis*; Drug Resistance