

عنوان مقاله:

Identification of Avian Salmonella Isolates by PCR-RFLP Analysis of a *fliC* Gene Fragment

محل انتشار:

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خلاصه مقاله:

The genus of *Salmonella* is very polymorphic and comprised of a number of genetically closely related serotypes. It is one of the emerging pathogen in food-borne disease which is often found in contaminated chicken eggs. *Salmonella enterica* is considered one of the major pathogens in public health worldwide. A total of 31 *Salmonella* isolates identified by specific antisera, which included *Salmonella enteritidis* (51.6%), *Salmonella typhimurium* (25.8%), *Salmonella infantis* (19.4%) and *Salmonella colindale* (3.2%). DNA was extracted using phenol- chloroform- isoamylalchol method. All the isolates showed *fliC* gene (1500bp) by using specific primers. PCR products were subjected to digestion using *HhaI* restriction endonuclease. PCR- RFLP results showed 3 patterns between all isolates. Our research gained in this study demonstrated that using *HhaI* restriction endonuclease could differentiate *Salmonella enteritidis* and *Salmonella colindale* but there is similarity between pattern of *Salmonella typhimurium* and *Salmonella infantis*.

کلمات کلیدی:

Salmonella, Avian, *fliC* gene, PCR, RFLP, *HhaI* restriction endonuclease

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