

***E. coli* O157:H7**

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*E. coli* O157:H7

## Enterobacteriaceae

*Enterobacter* (%32) *E.coli*  
 (%8.8) *Citrobacter* BRAAKII (%5.9) *E.sakazakii* (%19.3) *cloacae*  
 (%0.7) *Shigella* Sonni (%7.4) *Proteus* mirabilis (%3.0) *Citrobacter* freundii  
 (%1.5) *Serratia* Plymuthica (%5.2) *Salmonella*  
*Enterococcus* faecalis (%5.2) *Pseudomonas* aeruginosa  
 . (%10.4)

*E.coli*

*E.coli* (%47.7) O157 : H7  
 (%22.7) O157 ( %15.6)  
 . (%7.40) *E.coli*

. O157:H7 *E. coli* :

## **Detection of *E.coli* O157:H7 Strain Among Bacteria Contaminated Drinking Water in Nineveh Province**

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### **ABSTRACT**

This research, was dealt with the isolation and identification of bacteria caused contamination in drinking water, and detection on the virulent pathogen *E. coli* O157: H7 strain in contaminated drinking water samples, the results indicated that most isolated bacteria belong to Enterobacteriaceae and the higher percent was *E. coli* (%32) , in addition to other bacteria ,found among there were *Enterobacter cleaace* (%19.3), *E. sakazakii* (%5.9), *Citrobacter braakii* (%8.8), *Citrobacter freundii* (%3.0), *Proteus mirabilis* (%7.4), *Shigella sonni* (%0.7), *Salmonella* (%5.2), *Serratia plymuthica* (%1.5), *pseudomonae aeruginosa* (%5.2) and *Enterococcus faecalis* (%10.4) .

*E. coli* serotypes were diagnosed in drinking water samples, to detect O157: H7 strain the result showed that (47.7 %) from all *E. coli* strains and (%15.6) from all other bacteria, while O157 strain formed (%22.7) percent and (%7.40) were most bacteria Isolated from drink water.