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English abstract	
<p>A total number of 250 fecal samples were collected from 170 diarrhoeic and 80 healthy calves of 1-15 days old. All samples were subjected to bacteriological examination. E. coli were recovered from diarrhoeic calves (94.1%) and (83.7%) from healthy calves. The serological identification revealed that only 126 isolates were typable as follow O78 (15.6%), O25 (15%), O15 (13.1%), O115 (10.6%), O125 (10%), O168 (19%) and O28 (4.4). The virulence factors were studied for the isolated strains (the haemolytic activity-haemagglutination activity- Congo red binding ability - sereny test detection of heat stable enterotoxin and verotoxin. The antimicrobial susceptibility of E. coli isolates were determined with 9 available types. Plasmid profile of all E. coli strains carried and the protein patterns of E. coli strains.</p>	
Key words:	Calves, E. coli, virulence factors, plasmid.

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LIST OF ABBREVIATIONS

CR:	Congo red
CPE	Cytopathic effect
DNA	Deoxyribonucleic acid
EIEC	Enteroinvasive E. coli
EHEC	Enterohaemorrhagic E. coli
EPEC	Enteropathogenic E. coli
ETEC	Enterotoxiogenic E. coli
HA	Haemagglutination activity
IMVIC	Indole, methylred, voges-proskauer and citrate
KB	Kilobase
KDa	Kilodalton
LB	Luria-Bertiani medium
MR	Mannose resistente
MRHA	Mannose resistant haemagglutination activity
MS	Mannose sensitive
MSHA	Mannose sensitive haemagglutination activity
MR-VP	Methyred-voges proskauar
RNASE	Dnase-free Rnase
PCR	Polymearease chain reaction
SDA	Sodium dedocyle sulphate
SDA-PAGE	Sodium dedocyle sulphate polyacrylmide gel electrophorsis
STa	Heat stable toxin
TAE	Tris acetate EDTA
TEMED	Tetramethyl ethyl ediamine
TSI	Triple sugar iron
VP	Vogues perskauar
VTEC	Verotoxin E. coli
Ut	untypable
TE	Tris-EDTA