

// ()
// , ,

-

*

:

-

-

:

STEC

:

EPEC EAEC

(Shiga Toxin Escherichia coli)

ETEC

()

STEC

:

STEC

:

.()

-

:/ :
- :
:"

f_jaafari580@yahoo.com :

,
:
:
:
:
:

Salmonella–Shigella Agar

(Promadisa, manufacture by Hispanlab, S.A

- Madrid)

.()

-

%

°C

()

Campy Blood Agar

(Himedia M 9960 Imdia)

°C

Yersinia (% CO₂ % O₂ % N₂)

(Merck KGaA Darmstadt, – Selective Agar

°C

Germany)

.()

.()

(Merck

GaA- Germany)

DNA

°C

/ ml

)

DNA PCR .

(

st, *lt* *stx*₂, *stx*₁, *eae*

()

.() pCVD432

(

)

stx⁺

(

)

(Mast company) O157:H7

μl

μl

PCR

/ ,DNA

/ ()

/

Tag

(ice-pack)

(Eppendorf AG , 2233, Hamburg, Germany)

DNA

°C

(XLD) Xylose–Lysine–Desoxycholate–agar

UV °C °C

kb °C

PCR (*LT*⁺, *ST*⁺) *E.coli* ATCC 35401 :

O157:H7 (*stx1*⁺, *stx2*⁺, *eae*⁺) *E. Coli* ATCC 43894

stx (Agarose % / PCR

O157:H7 (Mast Company) LE Roche applied science, Germany)

	(5'-3')	(bp)
STEC (<i>stx1</i>)	CAGTTAATGTGGTGGCGAAG CTGCTAATAGTTCTGCGCATC	
STEC (<i>stx2</i>)	CTTCGGTATCCTATTCCCGG GGATGCATCTCTGGTCATTG	
EPEC (<i>eae</i>)	TGCGGCACAACAGGCGGCGA CGGTCGCCGCACCAGGATTC	
EAEC (pCVD432)	CTGGCGAAAGACTGTATCAT CAATGTATAGAAATCCGCTGTT	
ETEC (<i>lt</i>)	TCTCTATATGCACACGGAGC CCATACTGATTGCCGCAAT	
ETEC (<i>st</i>)	TCTGTATTGTCTTTTTTACC TTAATAGCACCCGGTACAAGC	

(% /)

(% /)

%

.() / :

EPEC ,EAEC (% /) () % /

) STEC () %

LT ETEC .()

(% /) ST (% /) (

(% /) % /

STEC .() % /

eae⁻, *stx2*⁺, *stx1*⁺

stx2, *stx1*, *eae*

	:	E.coli O157-H7	stx1, stx2
(n=)			
a (%)		(% /)	
(% /)			
	STEC	(% /)	
(% /)	stx1		
(% /)	stx2		
(% /)	stx1/stx2	(n =)	-
(% /)	EAEC		
(% /)	EPEC	()	
(% /)			
(% /)		()	
	ETEC	(/)	
(% /)	LT	(/)	
(% /)	ST	(/)	
(% /)	LT/ST		()
		(/)	-
(%) a		(/)	-
		(/)	-
		(/)	-
		(/)	-
		(/)	-
		(/)	-
		: /	(/)
Shigella flexneri/EAEC	(/)	/ ± /	(± SD)
Salmonella paratyphi A/ETEC	(/)	/ ± /	(± SD)
Shigella boydii/EAEC	(/)	/ ± /	
Salmonella typhi/EPEC	(/)	()	
Salmonella paratyphi C/EPEC	(/)	(/)	
Shigella sonnei/EAEC	(/)	(/)	
Salmonella group D/EAEC	(/)	(/)	
Shigella flexneri/STEC	(/)	(/)	
Campylobacter/STEC	(/)	(/)	
Campylobacter/EAEC	(/)	(/)	
	(/)	(/)	

()

(% /) (%)

:

(%)	(%)	(%)	(%)	(%)	()	
/	/	/	/	/	± /	
/	/	/	/	/	/ ± /	STEC
/	/	/	/	/	/ ± /	EAEC
	/	/	/	/	/ ± /	EPEC
/	/		/	/	± /	
/	/	/	/	/	/ ± /	
/		/	/	/	± /	ETEC

(% /)

(% /)

()

.()

.() (%)

.()

(% /) EPEC .()

(% /) .(/)

.() .(-)

		STEC	
(HUS)			
	()	ETEC EAEC	.
<i>Diarrhegenic E.coli</i>			% / % /
		ETEC	(%)
	(%) EAEC		
			()
	(% /) STEC (<i>Diarrhegenic E.coli</i>)		
	PCR		
	()	(% / % /)	
			STEC
			()
			STEC
			(HUS)
	STEC EPEC		
			HUS

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