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STEC

:

EPEC EAEC

(Shiga Toxin Escherichia coli)

ETEC

( )

STEC

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STEC

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f\_jaafari580@yahoo.com :

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# Salmonella–Shigella Agar

(Promadisa, manufacture by Hispanlab, S.A

- Madrid)

.( )

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%

°C

( )

# Campy Blood Agar

(Himedia M 9960 Imdia)

°C

Yersinia (% CO<sub>2</sub> % O<sub>2</sub> % N<sub>2</sub>)

(Merck KGaA Darmstadt, – Selective Agar

°C

Germany)

.( )

.( )

(Merck

GaA- Germany)

DNA

°C

/ ml

)

DNA PCR .

(

*st*, *lt* *stx*<sub>2</sub>, *stx*<sub>1</sub>, *eae*

( )

.( ) pCVD432

*stx*<sup>+</sup>

(

)

(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*<sup>+</sup>, *ST*<sup>+</sup>) *E.coli* ATCC 35401 :  
 O157:H7 (*stx1*<sup>+</sup>, *stx2*<sup>+</sup>, *eae*<sup>+</sup>) *E. Coli* ATCC 43894  
*stx* (Agarose % / PCR  
 O157:H7 (Mast Company) LE Roche applied science, Germany)

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

(% / )  
 (% / )  
 %  
 .( ) / :  
 EPEC ,EAEC (% / ) ( ) % /  
 ) STEC ( ) %  
 LT ETEC .( )  
 (% / ) ST (% / ) ( )  
 (% / ) % /  
 STEC .( ) % /  
*eae*<sup>-</sup>, *stx2*<sup>+</sup>, *stx1*<sup>+</sup>  
*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 |

(% / )  
(% / )  
( )

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( ) (% )  
( )  
( )  
(% / )  
(% / )  
(% / )  
( - )

|                            |      |        |                                     |         |
|----------------------------|------|--------|-------------------------------------|---------|
|                            |      |        | 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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