

# Escherichia coli

## CONTROL SHEET

EC-L22

SCQ EC-L22 (44) 17.09

### ANALYTICAL METHOD

MBS - MICRO BIOLOGICAL SURVEY

Rod-shaped aerobic, Gram-negative, non spore-forming, cytochrome oxidase negative microorganism; fermenting lactose with production of acids in the presence of bile salts or other surfactants; at a temperature of 44 °C produce indole from tryptophan.

INCUBATION  
TEMPERATURE

COLOR OF ANALYSIS AT START

COLOR OF ANALYSIS  
AT END

POSITIVE

NEGATIVE

44 °C

CONTAMINATION  
[CFU/g] [CFU/ml]  
[CFU/100cm<sup>2</sup>]

10<sup>8</sup>

10<sup>7</sup>

10<sup>6</sup>

10<sup>5</sup>

10<sup>4</sup>

10<sup>3</sup>

10<sup>2</sup>

10

1

0

TIME OF COLOR CHANGE  
[hours.minutes]

Water

< 3.00

< 3.00

< 3.00

3.10

9.40

15.40

21.50

28.10

34.20

40.00

Meat

< 3.00

< 3.00

7.15

13.30

19.45

26.00

35.15

38.30

44.50

48.00

Fish

< 3.00

< 3.00

7.15

13.30

19.45

26.00

35.15

38.30

44.50

48.00

Dairy product

< 3.00

< 3.00

7.15

13.30

19.45

26.00

35.15

38.30

44.50

48.00

Vegetables

< 3.00

< 3.00

7.15

13.30

19.45

26.00

35.15

38.30

44.50

48.00

Other

< 3.00

< 3.00

7.15

13.30

19.45

26.00

35.15

38.30

44.50

48.00

Surfaces

< 3.00

< 3.00

7.15

13.30

19.45

26.00

35.15

38.30

44.50

48.00

## QUANTITATIVE ANALYSIS

According to main standards and EU Regulations

TYPE OF SAMPLE

U.M.

LIMIT OF  
ACCEPTABILITY

TIME OF  
OBSERVATION  
[hours.minutes]

### FOOD

Fresh pastry and bakery products

CFU/g

10

38.30

Raw meat; minced meat; preparations of meat

CFU/g

10<sup>2</sup>

35.15

Fishery products, seafood, shellfish

CFU/g

10

38.30

Egg products

CFU/g

10<sup>2</sup>

35.15

Milk and products made from milk

CFU/g

10<sup>2</sup>

35.15

Precut vegetables (ready to eat); fruit juice

CFU/g

10<sup>3</sup>

26.00

Preparations of mixed ingredients cooked (ready to eat)

CFU/g

10

38.30

Preparations of mixed ingredients not cooked (ready to eat)

CFU/g

10<sup>2</sup>

35.15

### SURFACES

Worktops; tools

CFU/cm<sup>2</sup>

10

26.00

Hands

CFU/cm<sup>2</sup>

10

26.00

### WATER

Water for human consumption

CFU/100ml

0

40.00

Water for human consumption placed in bottles or containers

CFU/250ml

0

40.00

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