

## mikrocount® TPC/E

Flexible slide for total plate count and Enterobacteriaceae detection.

### DESCRIPTION

mikrocount® TPC/E is a ready-to-use device with two media solidified onto a plastic support used for total plate count and Enterobacteriaceae detection for microbiological monitoring of surfaces with inactivation of disinfectants.

### TYPICAL FORMULA (g/l)

#### PCA + TTC + NEUTRALIZING

Tryptone	5.0
Glucose	1.0
Yeast Extract	2.5
Agar	15.0
Sodium Phosphate Bibasic	0.2
Lecithin	0.015
L- Histidine	0.005
Sodium Thiosulphate	0.004
Tween 80	0.15
TTC 4%	1.3 ml
Final pH 7.0 ± 0.2	

#### V.R.B.G. + NEUTRALIZING

Peptone	7.0
Glucose	10.0
Yeast Extract	3.0
Sodium Chloride	5.0
Bile Salts N.3	1.5
Crystal Violet	0.002
Neutral Red	0.03
Agar	14.0
Sodium Phosphate Bibasic	0.2
Lecithin	0.015
L- Histidine	0.005
Sodium Thiosulphate	0.004
Tween 80	0.15
Final pH 7.4 ± 0.2	

### PRINCIPLE

PCA + TTC + NEUTRALIZING is a medium for the bacterial count. Tryptone is a product obtained by a controlled enzymatic hydrolysis of casein and contains a mix of peptides and free amino acids. Glucose is a source of energy. Yeast extract is a source of amino acids and vitamins of group B. Agar is the solidifying agent. Sodium phosphate bibasic, lecithin, L- histidine, sodium thiosulphate, Tween 80 are the ingredients of the neutralizing which eliminates the bactericidal activity of ammonium quaternary compounds contained in sanitizers. TTC is a growth indicator.

V.R.B.G. AGAR + NEUTRALIZING is a medium for Enterobacteriaceae detection. Peptone is a source of peptides and free amino acids. Glucose is a source of energy. Yeast extract is a source of amino acids and vitamins of group B. Sodium chloride maintains the osmotic balance of the medium. Biliary salts and crystal violet inhibit the growth of Gram-positive bacteria. Neutral red is an indicator of bacterial growth. Agar is the solidifying agent. Sodium phosphate bibasic, lecithin, L- histidine, sodium thiosulphate, Tween 80 are the ingredients of the neutralizing which eliminates the bactericidal activity of ammonium quaternary compounds contained in sanitizers.

### TECHNIQUE

1. Unscrew the cap with the paddle containing the medium. Avoid any contact with the agar surface.
2. Flex the cap until forming a corner of 90° and push the medium surface onto the surface to control applying a light pressure. Otherwise streak a swab used to collect the specimen directly onto the medium. Otherwise dip the slide into the washing liquid of the surface to control.
3. Rescrew the slide into its tube and incubate at 30 °C for 24-48 hours.

### INTERPRETATION OF RESULTS

Consult the information leaflet.

### STORAGE

10-25°C away from light, until the expiry date on the label or until signs of deterioration or contamination are evident.

### WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product must be used only by properly trained operators.

### DISPOSAL OF WASTE

Disposal of waste must be carried out according to national and local regulations in force.

### REFERENCES

1. ISO 4833: 2003. Microbiology- General Guidance for the enumeration of micro-organisms. Colony count technique at 30°C.
2. ISO 7402: 1993. Microbiology – General guidance for the enumeration of enterobacteriaceae without resuscitation – MPN technique and colony count technique.
3. ISO 8523: 1991. Microbiology – General guidance for the detection of enterobacteriaceae with pre-enrichment.

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## PRODUCT SPECIFICATIONS:

### NAME

mikrocount® TPC/E

### PRESENTATION

Slide containing 4.5 ml of medium in each side

### STORAGE

10 - 25 °C

### PACKAGING

20 Slides in box

### USE

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### SHELFLIFE

9 months

### TECHNIQUE

Refer to technical sheet of the product

### QUALITY CONTROL

1. Control of general characteristics, label and print
2. Sterility control  
7 days at 25 ± 1°C, in aerobiosis  
7 days at 36 ± 1°C, in aerobiosis
3. Microbiological control  
Inoculum for productivity: 30-300 CFU/ml  
Incubation conditions: 24-48 h at 36 ± 1°C, in aerobiosis

Microorganism		Growth on PCA + TTC	Colonies colour	Growth on VRBG	Colonies colour
<i>Staphylococcus aureus</i>	ATCC® 25923	Good	Red	Inhibited	---
<i>Escherichia coli</i>	ATCC® 25922	Good	Red	Good	Red-violet
<i>Klebsiella pneumoniae</i>	ATCC® 13883	Good	Red	Good	Red-violet

### TABELE OF SYMBOLS

 Batch code	 Do not reuse	 Manufacturer	 Use by	 Fragile, handle with care
 Catalogue number	 Temperature limitation	 Contains Sufficient for <n> tests	 Caution, consult accompanying documents	