

mikrocount® duo

Flexible slide for total plate count and yeasts and moulds detection.

DESCRIPTION

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

TYPICAL FORMULA (g/l)

<u>PCA + TTC + NEUTRALIZING</u>		<u>ROSE BENGAL CAF AGAR + NEUTRALIZING</u>	
Tryptone	5.0	Soy Peptone	5.0
Glucose	1.0	Glucose	10.0
Yeast Extract	2.5	Monopotassium Phosphate	1.0
Agar	15.0	Magnesium Sulphate	0.5
Sodium Phosphate Bibasic	0.2	Rose Bengal	0.05
Lecithin	0.015	Chloramphenicol	0.1
L- Histidine	0.005	Agar	15.0
Sodium Thiosulphate	0.004	Sodium Phosphate Bibasic	0.2
Tween 80	0.15	Lecithin	0.015
TTC 4%	1.3 ml	L- Histidine	0.005
Final pH 7.0 ± 0.2		Sodium Thiosulphate	0.004
		Tween 80	0.15
		Final pH 7.2 ± 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.

ROSE BENGAL CAF AGAR + NEUTRALIZING is a medium for yeasts and moulds detection. Soy peptone is a source of peptides and free amino acids. Glucose is a source of energy. Monopotassium phosphate provides buffering capability. Magnesium sulphate provide necessary trace elements. Rose bengal is a selective agent that inhibits bacterial growth and slows down rapidly growing moulds. Chloramphenicol is included to inhibit bacteria. 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. Koburger. 1976. In Speck (ed.), Compendium of methods for the microbiological examination of foods. American Public Health Association, Washington, D.C.

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PRODUCT SPECIFICATIONS:

NAME

mikrocount® duo

PRESENTATION

Slide containing 4.5 ml of medium in each side

STORAGE

10 - 25 °C

PACKAGING

20 Slides in box

USE

mikrocount® duo is a ready-to-use device with two media solidified onto a plastic support used for total plate count and yeast and mould detection for microbiological monitoring of surfaces with inactivation of disinfectants

SHELF LIFE

9 months

TECHNIQUE

Refer to technical sheet of the product

QUALITY CONTROL

- Control of general characteristics, label and print
- Sterility control
7 days at 25 ± 1°C, in aerobiosis
7 days at 36 ± 1°C, in aerobiosis
- 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	Colony colour	Growth on Rose Bengal CAF Agar	Colony colour
<i>Staphylococcus aureus</i>	ATCC® 25923	Good	Red	Inhibited	---
<i>Escherichia coli</i>	ATCC® 25922	Good	Red	Inhibited	---
<i>Klebsiella pneumoniae</i>	ATCC® 13883	Good	Red	Inhibited	---
<i>Candida albicans</i>	ATCC® 10231	Good	Red	Good	Pink
<i>Saccharomyces cerevisiae</i>	ATCC® 9763	Good	Red	Good	Pink

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	