

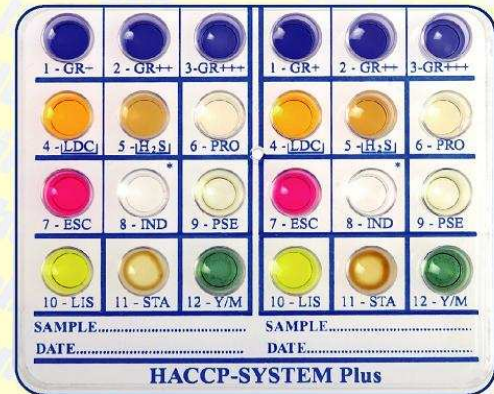
# HACCP SYSTEM Plus



**SYSTEM FOR TOTAL BACTERIAL COUNT AND PRESUMPTIVE IDENTIFICATION OF PATHOGENIC MICROORGANISMS FROM SURFACES**

**DIRECT INOCULATION FROM SURFACE SWAB SUSPENSION**

**RESULTS AFTER 18-24 HOURS INCUBATION AT 36 ± 1 °C**



## TOTAL BACTERIAL COUNT

### LOW contamination



1-GR+ from violet to yellow  
Low microbial contamination  
(4 - 50 CFU/cm<sup>2</sup>)

### MODERATE contamination



1-GR+, 2-GR++ from violet to yellow  
Moderate microbial contamination  
(50-500 CFU/cm<sup>2</sup>)

### HIGH contamination



1-GR+, 2-GR++, 3-GR+++ from violet to yellow  
High microbial contamination  
(>500 CFU/cm<sup>2</sup>)

## PRESUMPTIVE IDENTIFICATION OF PATHOGENIC MICROORGANISMS

The presence of **Salmonella spp** is shown by colour change of wells:

- 4 - LDC from yellow to red
- 5 - H<sub>2</sub>S from yellow to black

### Salmonella spp.



Positive



Negative

The presence of **Proteus/Providencia spp** is shown by colour change of wells:

- 5 - H<sub>2</sub>S from yellow to black
- 6 - PRO from yellow to brown

### Proteus / Providencia spp.



Positive



Negative

The presence of **Escherichia coli** is shown by colour change of wells:

- 7 - ESC from red to blue
- 8 - IND from colourless to pink-red

### Escherichia coli



Positive



Negative

The presence of **Pseudomonas spp** is shown by colour change of well: 9 - PSE from yellow to green

### Pseudomonas spp.



Positive

Negative

### Listeria spp



Positive

Negative

The presence of **Listeria spp** is shown by colour change of well: 10 - LIS from yellow to black

The presence of **Staphylococcus aureus** is shown by colour change of well: 11 - STA from yellow to black

### Staphylococcus aureus



Positive

Negative

### Yeast/Moulds



Positive

Negative

The presence of **Yeast/Moulds** is shown by colour change of well: 12 - Y/M from green to yellow



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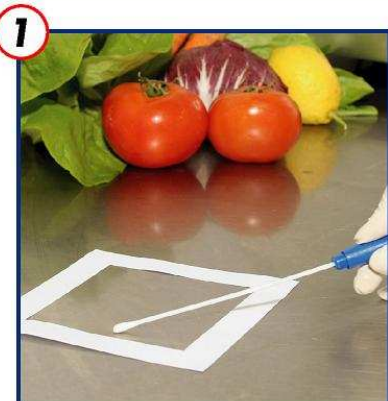
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## TEST PROCEDURE

# HACCP SYSTEM Plus

Cod. 71655

40 test



1 Define a surface area of 10 cm x 10 cm and strike it several times with a swab. Rotate the swab slightly after one complete streak over the surface selected.



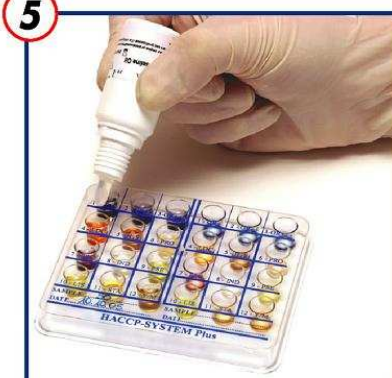
2 Keep the swab in a transport medium until the test performance.



3 After collection, immerse the swab in the vial of Inoculum Solution and wait 5 minutes.



4 Distribute 0.2 mL (4-5 drops) of the sample suspension under examination in each well of the system.



5 Cover the wells **4-LDC** and **5-H<sub>2</sub>S** with 2 drops each of Vaseline oil.



6 Cover the system with the lid provided and incubate at  $36 \pm 1$  °C for 18-24 hours.



7 Take 1 drop from the well **12-Y/M**, deposit it on a slide, cover it with a cover slide, observe at the microscope (40x) for the presence of mycelial strands and chlamydospores.



8 Add 2 drops of Kovac's Reagent to well **8-IND** and await the appearance of a pink-red ring (immediate reaction).



9 Observe the colour changes of the wells and note the results on the TEST RESULTS FORM.