

# HYGI SLIDE PCA / CHROMAGAR SALMONELLA

## PRINCIPLE AND INTERPRETATION:

**Side1: PCA:** A non-selective medium for the plate count of microorganisms in milk, other dairy products, foods, water and waste water. Plate Count Agar is equivalent to the medium recommended by APHA for the isolation of microorganisms in milk and other dairy products. Tryptone provides amino acids and other complex nitrogenous substances and yeast extract supplies Vitamin B complexes.

**Side2: Chromagar Salmonella:** Chromogenic medium for detection and isolation of Salmonella species, including S.Typhi and S.paratyphi in clinical specimens

## COMPOSITION:

### PCA

Ingredients	Gr/Liter
Tryptone	5 gr
Yeast extract	2,5 gr
Glucose	1 gr
Agar	9 gr

pH: 7,1 ± 0,2

### Chromagar Salmonella

Ingredients	Gr/Liter
Peptone and yeast extract	7 gr
Chromogenic mix	12,9 gr
Agar	15 gr

pH: 7,6 ± 0,2

\*\*\*Formula adjusted, standardized to suit performance parameters

## INSTRUCTIONS FOR USE:

### Testing Fluids:

1. Mix liquid test sample.
2. Remove the paddle from the vial. Do not touch the agar surfaces.
3. Immerse the slide in the fluid to be tested for about 5- 10 seconds. Alternatively expose the slide to a spray or running fluid so that the slide surfaces are covered.
4. Both agar surfaces must be completely contacted.
5. Allow excess fluid to drain off both paddle agar surfaces.
6. Replace the Slide into the tube and twist to tighten the cap. Label the tube with the identification label supplied. Incubate the slide as directed later.

### Testing Surfaces:

1. Remove the paddle from the vial. Do not touch the agar surfaces.
2. To assure an accurate area recovery, contact the paddle to 20<sup>2</sup>cm of the surface by contacting the surface twice in separate 10<sup>2</sup>cm areas.
3. Replace the Slide into the tube and twist to tighten the cap. Label the tube with the identification label supplied. Incubate the slide as directed later.

## QUALITY CONTROL:

### 1.Sterility Control:

Incubation 2 d at 30-35°C and 3 d at 20-25°C: NO GROWTH

### 2.Physical/Chemical Control

	pH	Apperance:
PCA:	7,1 ± 0,2	Light amber
Chromagar Salmonella	7,6 ± 0,2	Light amber

**3.Microbiological Control:** Incubate at 35±2 °C temperature for 24 hours.

**Side1: PCA**

Microorganism	Inoculum (CFU)	Results	
		Growth	Reaction
Escherichia coli ATCC 25922	10-100	Good	Cream colonies
Staphylococcus aureus ATCC 6538	10-100	Good	Cream colonies
B.subtilis ATCC 6633	10-100	Good	Cream colonies

**Side2: Chromagar Salmonella**

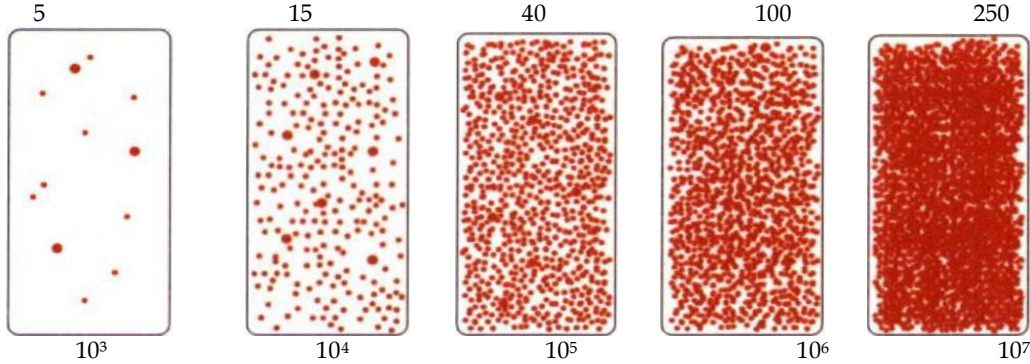
Microorganism	Inoculum (CFU)	Results	
		Growth	Reaction
Salmonella typhimurium ATCC 14028	10-100	Growth	Mauve
Escherichia coli ATCC 25922	10-100	Growth	Blue, small colonies
Candida albicans ATCC 10231	100-1000	Inhibition	Inhibition
Staphylococcus aureus ATCC 25923	100-1000	Inhibition	Inhibition

**INTERPRETATION OF RESULTS**

Compare the slide surfaces against the comparison chart printed below. Read the result corresponding to fluids or surfaces as appropriate. Note that very high levels of organisms could lead to a confluent growth and could be recorded as a nil result. Compare against an unused slide when reading results.

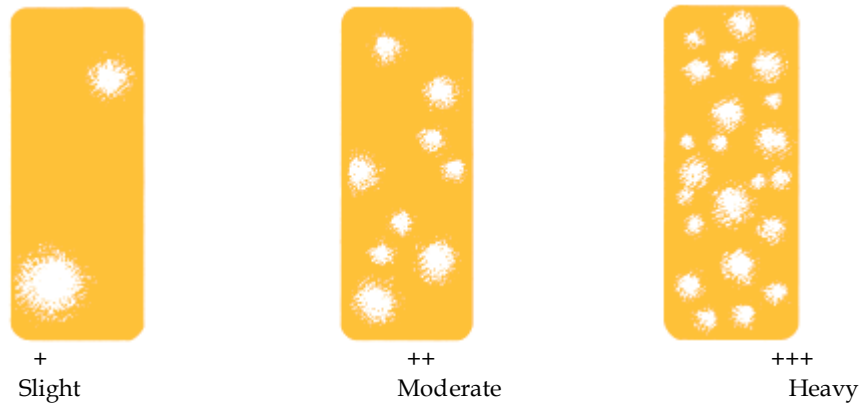
**Bacteria Comparison Chart**

**Surfaces**  
CFU/cm<sup>2</sup>



**Fluids**  
CFU/mL

**Fungi Comparison Chart**



**DISPOSAL:**

Incubated Slides may contain active bacteria and micro-organisms. Do not open infected slides except as part of disposal procedure. Infected slides should be autoclaved, incinerated or opened and soaked in a chlorine-based disinfectant (liquid bleach) for 20 minutes prior to disposal.

**STORAGE CONDITIONS AND SHELF LIFE:**

Slides should be stored in 2-20 °C. Temperature fluctuations may result in condensation settling at the bottom of the vial, although this does not affect culture properties, it could reduce the shelf-life or cause the agar to separate from the plastic paddle support.

Avoid sudden temperature changes. Shield from direct sunlight. Do not allow paddles to freeze. Do not use any slides which have been inadvertently contaminated during storage and which are already showing growth of micro-organisms

Use before expiry date on the label. Do not use beyond stated expiry date.

**PACKAGING:**

**Katalog Number:** 06026

**Content/Packaging:** 20 Slides/Box

**REFERENCES:**

1. American Public Health Association, Standard Methods for the Examination of Dairy Products, 14th ed., APHA Inc., Washington, D.C. (1978)
2. E.W. Frampton, et al., Comparison of  $\beta$ -glucuronidase and indole-based direct plating methods for enumeration of unstressed E. coli, J. Food Protect. 53, 933 (1990)
- 3-Rapid detection of Salmonella in Chicken meat using immunomagnetic separation, CHROMagar, Elisa and Real-time Polymerase Chain Reaction (RT-PCR) 2011 Ensaf G. Taha and others. Department of pathobiology, college of Veterinary medicine, nursing and Allied Health, Tuskegee University, Tuskegee, AL, USA International Journal of Poultry Science 9 (9) : 831-835, 2010
- 4-Salmonella Prevalence and Total Microbial and Spore Populations in Spices Imported to Japan 2006 Y. Hara-Kudo and others - Division of Microbiology, National Institute of Health Sciences, Setagaya-ku, Tokyo 158-8501, Japan
- 5-Evaluation of three enrichment broths and five plating media for Salmonella detection in poultry. 2005 Rall V.L.M., Rall R., Aragon L.C., da Silva M.G. 2005. Brazilian Journal of Microbiology, 36 : 147-150.
- 6-Comparison of CHROMagar Salmonella medium and Xylose-Lysine-Desoxycholate and Salmonella-Shigella Agars for isolation of Salmonellae from stool samples. 2002 Maddocks S. et al. 2002. Journal of Clinical Microbiology, 40 : 2999-3003.
- 7-Comparison of CHROMagar Salmonella medium and Hektoen Enteric Agar for isolation of Salmonellae from stool samples. 1999 Gaillot O. et al. 1999. Journal of Clinical Microbiology, 37 : 762-765.



Aseptic Sterile



Batch Code



Catalogue Number



Negative Controls



Positive Controls



Use by



Temperature Limitation



Do not reuse



Contains sufficient for <n> tests



Look at user manual



Manufacturer