



HiEnviro-Sponge™ Stick Hydrated w/ 10ml Neutralizing Buffer w/ gloves,sterile

EST004A

Intended Use

Recommended for microbiological sample collection from food processing equipments and environmental surfaces where neutralization of residues of disinfectant is required which have antimicrobial activity.

Composition

| Ingredients | g/ L |
|--------------------------------|---------|
| Potassium dihydrogen phosphate | 0.0425 |
| Sodium thiosulphate | 0.160 |
| Neutralizing compound | 5.009 |
| Final pH (at 25°C) | 7.2±0.2 |

**Formula adjusted, standardized to suit performance parameters

Directions

1. To label write on the white print area of the sampling bag.
2. Tear off the top of the bag along the tear line and pull the tabs to open the bag.
3. Guide the sponge stick with handle towards the top and remove the sponge stick by grasping the handle without touching the internal surfaces of the bag.
4. Sample the area by ensuring the entire sponge makes full contact with the surface.
5. Transfer the sponge stick inside the bag halfway and hold sponge in place inside bag. Snapoff the sponge from the sponge stick, discard the handle while the sponge stays inside the bag
6. By holding the taped wires roll the bag appropriately and close the bag by folding the taped wires.
7. Incubate the sampled bag at 35 -37°C for 18-24hours.

Principle And Interpretation

Neutralizing buffers are used in the examination of dairy and food equipments for possible contamination of microorganisms. The buffer is generally used to inactivate the bactericidal and bacteriostatic effect of chlorine and quaternary ammonium compounds. It is also recommended by APHA for use in the microbiological examination of surfaces (1,2). Potassium dihydrogen phosphate buffers the medium well. The neutralizing compound neutralizes the effect of quaternary ammonium compounds while sodium thiosulphate inactivates the effect of chlorine compounds.

Type of specimen

Environmental samples, food industry samples

Specimen Collection and Handling

For environmental samples, follow appropriate techniques for sample collection, processing as per guidelines and local standards (Follow directions) . After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions

Read the label before opening the container. Wear protective gloves / protective clothing / eye protection / face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling specimens. Safety guidelines may be referred in individual safety data sheets.

Limitations

1. Each lot of the medium has been tested for the organisms specified on the COA. It is recommended to users to validate the medium for any specific microorganism other than mentioned in the COA based on the user's unique requirement or observation.

Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

Quality control

Appearance

Sterile HiEnviro-Sponge™ Stick Hydrated w/ 10ml Neutralizing Buffer w/ gloves in wired sampling bag

Dose of Irradiation (kGy)

> 25 kGy

Sterility Check

Passes release criteria

Cultural Response

Check for recovery of low CFU Organisms (~10 CFU/ml), inoculated on hydrated sponge w/ 10ml Neutralizing Buffer with hold time of 1 hr ± 15 mins at 20-25°C. Further enrichment in Tryptone Soya Broth is carried out with incubation at 30-35°C for 18-24 hrs, followed by recovery on Selective media.

Organism

Growth

| | |
|---|--|
| <i>Escherichia coli</i> ATCC 25922 (00013*) | good-luxuriant (Recovery on MacConkey Agar, MP081) |
| <i>Salmonella</i> Typhimurium ATCC 14028 (00031*) | good-luxuriant (Recovery on XLD Agar, MP031I) |
| <i>Listeria monocytogenes</i> ATCC 19111 (00020*) | good-luxuriant (Recovery on HiCrome™ <i>Listeria</i> Ottaviani-Agosti Agar Base, M1540I) |

Key : (*) Corresponding WDCM numbers.

Storage and Shelf life

Store between 15-30°C. Use before expiry date on the label.

Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with sample must be decontaminated and disposed of in accordance with current laboratory techniques (3,4).

Reference

- 1.Salfinger Y., and Tortorello M.L., 2015, Compendium of Methods for the Microbiological Examination of Foods, 5th Ed., American Public Health Association, Washington, D.C.
- 2.Wehr H. M. and Frank J. H., 2004, Standard Methods for the Microbiological Examination of Dairy Products, 17th Ed.,APHA Inc., Washington, D.C.
- 3.Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition.
- 4.Jorgensen,J.H., Pfaller , M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.

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Disclaimer :

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