

Surface-Sponge-Kit (Sponge Sampling Method)

K082

Intended use

Surface Sampling Kit for Microbiological control in slaughter houses and meat processing plants.

Kit contents

- a) 1 Sterile, non inhibitory, sponge with a dimensions of 3.8 x 7.6 x 1.5cm enclosed in a Whirl-Pack bag.
- b) 1 bottle with 40ml sterile diluent (M1062) (Dey-Engley Neutralizing Broth).
- c) 1 Sterile disposable square template of 20cm² (5x 4cm) in a zip lock bag.

Directions :

1. Select the areas to be sampled by placing the sterile disposable square template.
2. Tear off the Whirl-Pack bag and add the sterile diluent (Dey-Engley Neutralizing Broth) from the bottle just enough to completely dampen the sponge. However avoid adding excess diluent.
3. In case of moist surface, the sponge can be used directly.
4. Place the template against the area to be sampled, press it firmly and wipe the sponge in perpendicular directions using both the sides of the sponge (use sterile gloves for wiping with the sponge).
5. After the area has been swabbed, place the sponge in the Whirl-pack bag and add the remaining diluent (Dey-Engley Neutralizing Buffer) to it.
6. For further processing of the sample the bag is transported to the laboratory under refrigerated conditions within 4 hours.

Principle And Interpretation

Sampling kits are used for microbiological control in slaughter houses and meat processing plants. This kits are also useful for environmental sampling of working areas and equipment control in general. Application areas: Food, Animal feed, Dairy industries, Meat processing plants, Large catering areas etc.

Type of specimen

Environmental samples

Specimen Collection and Handling:

For environmental samples, follow appropriate techniques for sample collection, processing as per guidelines and local standards (Refer 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. Individual organisms differ in their growth requirement and may show variable growth patterns on the medium.
2. 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.

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 :

- 1) 1 Sterile, non inhibitory, sponge with a dimensions of 3.8 x 7.6 x 1.5cm enclosed in a Whirl-Pack bag.
- 2) 1 bottle with 40ml sterile diluent (M1062) (Dey-Engley Neutralizing Broth).
- 3) 1 Sterile disposable square template of 20cm² (5x 4cm) in a zip lock bag.

Colour and Clarity

Purple to reddish purple coloured, opalescent solution (may have particulate precipitate) of Dey-Engley Neutralizing Broth (M1062)

Sterility Testing

No growth is observed after 14 days for Bacteria at 30-35°C and for fungi at 20-25°C.

Cultural Response:

Cultural characteristics observed after an incubation at 35-37°C for 40-48 hours.

Organism	Inoculum (CFU)	Growth
<i>Bacillus spizizenii</i> ATCC 6633 (00003*)	50-100	luxuriant
<i>Escherichia coli</i> ATCC 25922 (00013*)	50-100	luxuriant
<i>Pseudomonas aeruginosa</i> ATCC 27853 (00025*)	50-100	luxuriant
<i>Salmonella</i> Typhimurium ATCC 14028 (00031*)	50-100	luxuriant
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 25923 (00034*)	50-100	luxuriant
<i>Escherichia coli</i> ATCC 8739 (00012*)	50-100	luxuriant
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 6538 (00032*)	50-100	luxuriant

Key : (*) Corresponding WDCM numbers. \$- Formerly known as *Bacillus subtilis* subsp. *spizizenii*

Storage and Shelf Life

On receipt store between 2-8°C. Product performance is best when used within expiry period.

Disposal

Unseal the bag and add three chlorine tablets in each bag to decontaminate. Mix well and allow to stand for 30 minutes and then pour contents into sink drain, toilet or hole in the ground. Safely dispose the bag.

Reference

- 1.Isenberg, (Ed.), Clinical Microbiology Procedures Handbook 2nd Edition
- 2.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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