

Instructions for Use



ENVIROTRANS™ NEUTRALIZING BUFFER

Cat. no. SRK15	EnviroTrans™ Neutralizing Buffer, 15x75mm Polypropylene Tube with 69.9mm length swab, 5ml	20 tubes/box
Cat. no. SRK20	EnviroTrans™ Neutralizing Buffer, 15x75mm Polypropylene Tube with 69.9mm length swab, 2ml	20 tubes/box

INTENDED USE

Hardy Diagnostics EnviroTrans™ Neutralizing Buffer is designed for sampling surfaces as a part of the HACCP (Hazard Analysis Critical Control Point) systems and other environmental monitoring plans. The EnviroTrans™ Neutralizing Buffer is a self-contained system intended to collect samples from work surfaces, utensils or other industrial apparatus (i.e. pump impellers, gaskets, etc.).

This product is not intended to be used for the diagnosis of human disease.

SUMMARY

Hardy Diagnostics EnviroTrans™ Neutralizing Buffer is a self-contained unit which includes a sterile Dacron swab, attached to the lid, and a tube containing 2ml or 5ml of Neutralizing Buffer.

Quaternary ammonium compounds are molecules which contain a nitrogen atom with four other atoms bonded to it. Most quaternary ammonium compounds are organic compounds and have biological activity. These compounds often work well as disinfectants, offering bactericidal and bacteriostatic effects.

Neutralizing Buffer, as the transport media in this unit, has the ability to neutralize the bactericidal and bacteriostatic effect of chlorine and quaternary ammonium compounds. This media, however, does not promote growth. It is solely intended to facilitate survival of organisms in the sample during transport to the lab.

FORMULA

Ingredients per liter of deionized water:*

Aryl Sulfonate Complex	5.0gm
Sodium Thiosulfate	160.0mg

Potassium Phosphate	42.5mg
Sodium Hydroxide	8.0mg

Final pH 7.2 +/- 0.3 at 25°C.

* Adjusted and/or supplemented as required to meet performance criteria.

STORAGE AND SHELF LIFE

Storage: Upon receipt, store at 2-30°C. Always keep away from direct light. Media should not be used if there are any signs of deterioration, contamination, or if the expiration date has passed. Product is light and temperature sensitive; protect from light, excessive heat and freezing.

The expiration date on the product label applies to the product in its intact packaging when stored as directed. The product may be used and tested up to the expiration date on the product label and incubated for the recommended incubation times as stated below.

Refer to the document "[Storage](#)" for more information.

PRECAUTIONS

This product may contain components of animal origin. Certified knowledge of the origin and/or sanitary state of the animals does not guarantee the absence of transmissible pathogenic agents. Therefore, it is recommended that these products be treated as potentially infectious, and handle observing the usual universal blood precautions. Do not ingest, inhale, or allow to come into contact with skin.

This product is for laboratory use only. It is to be used only by adequately trained and qualified laboratory personnel. Observe approved biohazard precautions and aseptic techniques. All laboratory specimens should be considered infectious and handled according to "standard precautions." Refer to the document "[Guidelines for Isolation Precautions](#)" from the Centers for Disease Control and Prevention.

For additional information regarding specific precautions for the prevention of the transmission of all infectious agents from laboratory instruments and materials, and for recommendations for the management of exposure to infectious disease, refer to CLSI document M29: *Protection of Laboratory Workers from Occupationally Acquired Infections*.

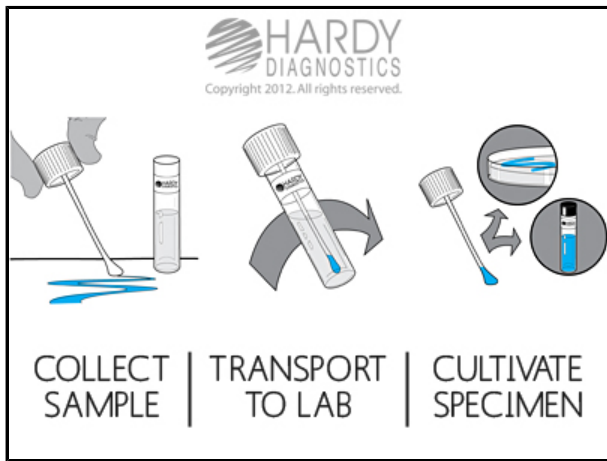
Sterilize all biohazard waste before disposal.

Refer to the document "[Precautions When Using Media](#)" for more information.

PROCEDURE

Specimen Collection⁽¹⁾

Aseptically collect sample. Collect sample by rubbing the swab over the sample area (approximately 50cm²), reversing directions between strokes. Repeat the collection procedure three more times, returning the swab head to the Neutralizing Buffer after swabbing each area. When sampling utensils such as knives or ladles, run the swab over the entire surface of the instrument three times, as described above. If sample is not immediately taken to the lab the sample can be refrigerated for up to 24 hours prior to analysis.



Plating⁽¹⁾

Prior to plating, shake the tube vigorously (50 cycles of 15cm in 10 seconds). Prepare plates, using Standard Methods Agar or other appropriate media, plating 1.0ml and 0.1ml samples of Neutralizing Buffer containing the sample. Incubate plates at 35°C. for 48 hours, then calculate the number of colonies from 50cm² sample area.⁽²⁾

INTERPRETATION OF RESULTS

Generally, the U.S. Public Health Service states cleaned and sterilized food service equipment should not have more than 100 colonies per utensil or surface area sampled.⁽¹⁾ More often, the type of organism, rather than numbers, is more critical in a HACCP monitoring system. It could be that more stringent specifications need to be made based on the type of surface sampled and the nature of the finished product that is being produced.

LIMITATIONS

It is recommended that biochemical, immunological, molecular, or mass spectrometry testing be performed on colonies from pure culture for complete identification of bacteria and/or fungi.

Refer to the document "[Limitations of Procedures and Warranty](#)" for more information.

MATERIALS REQUIRED BUT NOT PROVIDED

Standard microbiological supplies and equipment such as loops, other culture media, incinerators, and incubators, etc., as well as serological and biochemical reagents, are not provided.

QUALITY CONTROL

EnviroTrans™ Neutralizing Buffer should appear clear, and colorless.

REFERENCES

1. APHA Technical Committee on Microbiological Methods for Foods. *Compendium of Methods for the Microbiological Examination of Foods*, APHA, Washington, D.C.
2. Tiedman, W.D., Chairman. 1948. *Technic for the Bacteriological Examination of Food Utensils*. Committee Report. American Journal of Public Health Yearbook.



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