TS013	Transport Swab for Environmental Monitoring

Directions:

1. Identify surface, area or site to be sampled. A sterile square sampling template is recommended when sampling flat surfaces.
2. Unscrew the long screw cap tube containing sponge w/ saline.
3. Insert the flock tip swab into the sponge to moisten the tip.
4. Place the template at the sampling surface & swab in bidirectional, in order to achieve maximum uptake of surface material.
5. When sampling is completed, insert the swab to second tube with Buffered Peptone Water and break at the neck by applying pressure diagonally. Make sure the cap is properly tightened.
6. Transport samples to the laboratory within 4 hours in a cool condition. Sample can be refrigerated at 2-8°C for upto 24 hours before analysis.
7. For analysis, vortex the tube containing Buffered peptone water with swab to release sample material and make uniform suspension.
8. Carry out processing by surface spread method or pour plate method. If the concentration of organism in the sample is expected to be high, then prepare serial dilution.

Principle:

Buffered Peptone Water is recommended for preparation of stable test strain suspension employed for validating the microbiological testing procedures of non-sterile products. The standardized stable suspensions are used so that the suitability of this test to detect microorganism in presence of product can be established. Non-fatty products insoluble in water- and water-soluble products are diluted/dissolved using this solution.

Peptone (meat or casein) serves as nutrient source and maintains the cell viability. Phosphates in the medium act as good buffering agents. Sodium chloride maintains the osmotic balance and cell integrity. Polysorbates reduce surface tension and also inactivate phenolic compound, if present in the test sample.

(I) QC Tests		
	pH:	7.0 ± 0.2
	Color:	Clear colorless solution
	Appearance:	Sterile Buffered Peptone Water in tube with sterile swab in individual pack
(II)Sterility test		Passes release criteria
(III)Q.C. Test Microbiological		
	Viability of various microorganisms was established for a period upto 24 hours. Organisms grew luxuriantly when inoculated and recovered on Tryptone Soya Agar (B039) and incubated at 35 -37°C for 18-24 hours.	
	MICROORGANISM (ATCC)	GROWTH
	Escherichia coli 25922	Luxuriant
	Escherichia coli 8739	Luxuriant
	Escherichia coli NCTC 9002	Luxuriant
	Salmonella Typhimurium 14028	Luxuriant
	Pseudomonas aeruginosa 27853	Luxuriant
	Staphylococcus aureus 25923	Luxuriant
	Staphylococcus aureus ATCC 6538	Luxuriant
	Pseudomonas aeruginosa 9027	Luxuriant
	Salmonella Abony NCTC 6017	Luxuriant
	Micrococcus luteus 9341	Luxuriant
	Candida albicans 10231	Luxuriant
	Candida albicans 2091	Luxuriant

Refer disclaimer Overleaf

Precautions :	1. In Vitro diagnostic use only.
	2. Read the label before opening the container
Limitations :	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.
Use:	Recommended for recovery of environmental monitoring.
Storage:	Store between 5 – 25°C with caps firmly tighten. Use before expiry date on label.
Packing:	2ml of medium in 10/50 tubes with sterile swabs in individual pack.