



WHAT TOOL
WILL YOU
CHOOSE
FOR RESULTS
YOU CAN
TRUST?



HOW DO
WHIRL-PAK®
POLYURETHANE
SPONGE
BAGS
COMPARE
TO THE
COMPETITION

	WHIRL-PAK®	COMPETITION		
SPONGE				
Material	Polyurethane	Cellulose		
Resists Crumbling	Yes	No		
Resists Tearing	Yes	No		
Biocide FREE	Yes	No		
Biofilm Breakthrough	Yes	No		
Medical grade	Yes	No		
HANDLE				
Polypropylene	Yes	Yes		
Twist Off	Yes <i>CUSTOMER FAVORITE - Easy Twist-Off</i>	Yes		
COLLECTION BROTH				
	HiCap Neutralizing Broth	Neutral. Buffer	Letteen Broth	D/E Neutral. Broth
Ability to:				
Neutralize Quats	High	Moderate	Weak	High
Neutralize Free Chlorine	High	Weak	Moderate	High
Neutralize High Acid	High	Weak	Moderate	High
Neutralize Peroxyacetic Acid	High	Weak	Weak	High
Buffer Low pH Sanitizers	Yes	No	No	No
Compatible with:				
3M Petrifilm Plates	Yes	No	Yes	No
Molecular Detection Assays	Yes	No	Yes	Yes
Components:				
Acceptable for Use in Food	Yes	No	Yes	No
Non-Allergenic	Yes	Unknown	Unknown	No
No Meat Peptones or Extracts	Yes	Yes	No	No

Using the correct tool is one of three components that impacts the effectiveness of your Environmental Monitoring Program (EMP). While site selection and frequency analysis are important factors, **without the best sample collection tool, can you ultimately trust the results?**

HiCap™ Neutralizing Broth Comparison Study

Overnight cultures of *Listeria monocytogenes* (ATCC 19118) or *Salmonella typhimurium* (ATCC 14028) were inoculated onto 1'2 stainless steel coupons and dried under ambient conditions for 72 hours. After drying, the coupons were sampled with PolyProbe™ sponge samplers hydrated with 10 ml of HiCap™ Neutralizing Broth, Lethen Broth, Neutralizing Buffer, or D/E Neutralizing Broth. For comparison, sponges were either enriched immediately or held at refrigerated temperatures for 72 hours and then enriched. *Listeria* samples were enriched in 100 ml UVM broth, transferred to Demi Fraser Broth and streaked to Harlequin® *Listeria* Chromogenic Agar to determine presence/absence of *Listeria*. *Salmonella* samples were enriched in 100 ml BPW, followed by RV broth and then streaked on XLD and Harlequin® *Salmonella* Chromogenic agar to determine presence/absence of *Salmonella*.

Results comparing HiCap Neutralizing Broth with Neutralizing Buffer, D/E/ Neutralizing Broth, and Lethen Broth for the recovery of pathogens from stainless steel surfaces.

SAMPLES ENRICHED	LISTERIA		SALMONELLA	
	Neutralizing Buffer (positive/tested)	HiCap (positive/tested)	Neutralizing Buffer (positive/tested)	HiCap (positive/tested)
0 h post-collection	1/15	15/15	1/15	13/15
72 h post-collection	0/15	3/15	0/15	15/15

SAMPLES ENRICHED	LISTERIA		SALMONELLA	
	D/E Neutralizing Buffer (positive/tested)	HiCap (positive/tested)	D/E Neutralizing Buffer (positive/tested)	HiCap (positive/tested)
0 h post-collection	11/30	13/30	0/30	9/30
72 h post-collection	5/30	12/30	0/30	10/30

SAMPLES ENRICHED	LISTERIA		SALMONELLA	
	Lethen Broth (positive/tested)	HiCap (positive/tested)	Lethen Broth (positive/tested)	HiCap (positive/tested)
0 h post-collection	9/15	12/15	14/30	11/30
72 h post-collection	5/15	12/15	10/30	10/30

In each comparison, Hi-Cap Neutralizing Broth demonstrated equivalent or better recovery of the stressed salmonella and *Listeria* organisms from samples enriched immediately after sampling when compared to the other commonly used collection solutions.

To learn more visit our website for more information and whitepapers on materials and solutions that make up PolySponge™, PolyProbe™.

PROTECT YOUR SAMPLES UP TO 72 HOURS

It is ideal to perform analysis of your sample within 24 hours, but there are instances when that is not possible.

With HiCap™ Neutralizing Broth – used in our hydrated polyurethane sponges – samples can be held up to 72 hours before starting enrichments without sacrificing accuracy.

Unlike other buffers/ broths, HiCap Neutralizing Broth has the ability to maintain the viability of stressed and injured cells for up to 72 hours after collection.

