

World Bioproducts

Product Specifications

EZ Reach™ sponge sampler

Intended for collection of environmental surface or carcass samples

- Handle allows for aseptic sampling of surfaces and hard to reach areas without touching the sponge.
- Patented twist-off handle securely holds sponge during sampling and is easily removed for transport of sponge to the lab, in the included sample bag.
- Biocide-free polyurethane sponge resists tearing and crumbling during sample collection.
- Ideal for sampling areas up to 2 ft²



Device Specifications:

- Qty: 100 / case
Pre-hydrated devices: 5 resealable foil barrier pouches of 20 units each / case
Dry devices: Polyurethane - 5 resealable foil barrier pouches of 20 units each / case; Cellulose - 1 pouch of 100 units / case
- Sample bag: sealed, wire closure 18 oz (approx. 5.0" x 9.0") or 24 oz (6.0" x 9.0") bag
- Sponge: Polyurethane (white) or cellulose (orange) 1.5" x 3.0"
- Handle: Blue, polypropylene twist-off (recyclable) 7.5" x 0.75"
- Storage conditions: dependent upon collection solution
- Processing: Terminally gamma irradiated for sterility
- Available Options:
Attached glove packet – 1 pair blue, deli-style gloves

Collection Solution Specifications:

| Collection Solution ^A | Appearance | pH | Storage ^B | Shelf life ^C | Volume ^D |
|----------------------------------|---|-----------|----------------------|-------------------------|---------------------|
| Buffered Peptone Water | Light yellow to tan or amber; clear to slightly hazy | 7.0 – 7.4 | 2 – 30 °C | 24 months | 10 ml |
| D/E Neutralizing Broth | Purple; opaque with suspended particles | 7.4 – 7.8 | 2 – 8 °C | 12 months | 10 ml |
| HiCap™ Neutralizing Broth | Light amber; hazy opalescent with slight precipitate | 6.8 – 7.2 | 2 – 30 °C | 24 months | 10 ml |
| Lethen Broth | Light amber; clear to slightly opalescent with slight precipitate | 6.8 – 7.2 | 2 – 30 °C | 12 months | 10 ml |
| Neutralizing Buffer | Light amber; clear | 6.9 – 7.5 | 2 – 30 °C | 24 months | 10 ml |

^A Alternative collection solutions available upon request

^B All EZ Reach sponge sampler products are designed to be shipped at ambient temperatures but should be stored as indicated upon receipt.

^C From date of manufacture.

^D Alternative volumes may be available for special applications.

Buffered Peptone Water:

- All components are listed in EAFUS^E, with the exception of casein peptone (sometimes generically referred to as peptone or digested milk peptone), although casein is present in this list.
- Casein peptone is sourced from countries considered to be BSE-free.

D/E Neutralizing Broth:

- All components are listed in EAFUS, with the exception casein peptone (sometimes generically referred to as peptone or digested milk peptone, casein is present in this list), yeast extract (baker's yeast extract is present in the list), sodium thioglycollate and bromcresol purple.
- Casein peptone is sourced from countries considered to be BSE free

HiCap™ Neutralizing Broth:

- All components are listed in EAFUS.
- There are no animal-derived materials used in this broth medium.

Lethen Broth:

- All components are listed in EAFUS, with the exception of beef extract and Proteose Peptone #3 (sometimes generically referred to an enzymatic digest of animal protein).
- Beef extract and Proteose Peptone #3 are sourced from countries considered to be BSE free.

Neutralizing Buffer:

- All components are listed in EAFUS, with the exception of aryl sulfonate complex.
- Aryl sulfonate complex is considered by the supplier to conform to FDA 21CFR175.105 (Adhesives), 21CFR175.300 (Resinous and Polymeric Coatings), 21CFR175.170 (Components of Paper, Paperboard in Contact with Aqueous and Fatty Food), 21CFR175.180 (Components of Paper, Paperboard in Contact with Dry Food), 21CFR175.1210 (Closures with Sealing Gaskets for Food Containers)

^E EAFUS - Everything Added to Food in the U.S. list of substances contains ingredients added directly to food that FDA has either approved as food additives or listed or affirmed as Generally Recognized as SAFE (GRAS).

Neutralizing Collection Solution Comparison Chart:

| Attribute | HiCap™ Neutralizing | Neutralizing | Letteen | D/E Neutralizing Broth |
|---|---------------------|----------------------|----------------------|------------------------|
| Ability to neutralize quats ¹ | Highest | Moderate | Weakest | Highest |
| Ability to neutralize free chlorine | Highest | Weakest | Moderate | Highest |
| Ability to neutralize high acid | Highest | Weakest | Moderate | Highest |
| Ability to neutralize peroxyacetic acid | Highest | Weakest | Weakest | Highest |
| Ability to buffer low pH (high acid) sanitizers ² | Yes | No | No | No |
| All components are compatible with 3M Petrifilm plates ³ | Yes | No | Yes | No |
| Compatible with molecular detection assays | Yes | No ⁴ | Yes | Yes |
| All components listed in EAFUS ⁵ as acceptable for use in food | Yes | No | Yes | No |
| All components are identified as non-allergenic | Yes | Unknown ⁶ | Unknown ⁷ | No ⁸ |
| No meat peptones or extracts | Yes ⁹ | Yes | No | No |
| Store at ambient temp 2-30°C | Yes | Yes | Yes ¹⁰ | No ¹¹ |

1. Technical data available upon request. ~ 2. Technical data available upon request. ~ 3. 3M recommends avoiding solutions that contain bisulfite, citrate and thiosulfate when working with Petrifilm. ~ 4. Possibly due to the presence of aryl sulfonate complex in the neutralizing buffer. ~ 5. EAFUS - Everything Added to Food in the U.S. (U.S. FDA). ~ 6. Contains aryl sulfonate complex of unknown allergenicity. ~ 7. Letteen broth contains lecithin. Lecithin used in microbiological culture media is typically derived from soy or egg. ~ 8. Contains peptone from milk and lecithin, which is typically derived from soy or egg. ~ 9. Includes vegetable peptones (not digested with animal-derived enzymes) and yeast extract. ~ 10. Some suppliers of Letteen broth specify refrigerated storage. ~ 11. D/E shows pH instability with ambient storage.

Recommended Best Practices:

Sanitizing surfaces after sample collection:

It is recommended that all surfaces sampled using the EZ Reach sponge samplers be rinsed and sanitized after a sample is collected. This is especially important when a culture broth (such as D/E Neutralizing Broth, Letteen Broth, Buffered Peptone Water, or HiCap Neutralizing Broth) contains growth promoting materials, such as peptones, that if left on the surface may support the growth of microorganisms after the sample is collected.

Handling of samples after collection:

It is recommended that samples be analyzed as soon as possible after collection. If samples are sent to an off-site laboratory for analysis, they should be packed in accordance with local shipping regulations. Samples should be packed on ice to maintain refrigerated temperatures. Care should be taken to avoid freezing of samples. Samples collected using Buffered Peptone Water, D/E Neutralizing Broth, Letteen Broth or Neutralizing Buffer should be analyzed within 24 hours of collection. Samples collected using HiCap Neutralizing Broth may be held at refrigerated temperatures (2-8 °C) for up to 72 hours prior to analysis.^f

^f Data on file at World Bioproducts and available upon request

World Bioproducts, LLC PO Box 947 Bothell, WA 98041

www.worldbioproducts.com

email: info@worldbioproducts.net

Phone: +1 425-242-4153