

Soleris® Enterobacteriaceae Vial - 5 mL

Product No. S2-EBAC5

Instructions for use in Soleris Instrument



Soleris® vial uninoculated (left) and inoculated vial (right).

The *Enterobacteriaceae* (S2-EBAC5) Vial (5 mL) is a screening vial specific for *Enterobacteriaceae* organisms. The vial has broad inclusivity and an assay time of 14–18 hours for most applications. The vial contains a peptone yeast extract base with glucose as a carbon source. The selective agents include bile salts, sodium lauryl sulfate and other gram-positive inhibitors. Acidification of the medium due to the glucose utilization changes the pH. As *Enterobacteriaceae* metabolize, the pH indicator changes from a

purple to a yellow color. The color change is read by optical sensors in the instrument.

Materials Required:

S2-EBAC5, *Enterobacteriaceae* (S2-EBAC5) vial

Dependent on Sample Tested:

1. Sterile 1 N to 5 N sodium hydroxide (NaOH) and/or hydrochloric acid (HCl)
2. pH meter or pH paper
3. Butterfield's Phosphate Buffer, 99 mL (BPB-99)
4. For USP Testing: Tryptic Soy Broth, 90 mL (BLX-TSB90) or Butterfield's Phosphate Buffer, 90 mL (6654)
 - a. If required use a designated neutralization broth, such a D/E Neutralizer, TAT Broth, Modified Lethen Broth, etc.

Vial Specifications

1. Vial pH is 6.7 ± 0.2
2. Vial sample capacity up to 5.0 mL

Sample Preparation

1. For non-USP Testing, add the sample directly or prepare a 1:10 dilution by adding 11 g of sample to 99 mL of sterile Butterfield's Phosphate Buffer.
2. For USP testing, perform 1:10 dilution by adding 10 g of sample in 90 mL of Tryptic Soy Broth (See Neogen Rapid Microbiology System Validation Book, Introduction, p.5) or designated neutralization broth.
 - a. Check pH and adjust, if necessary, to 7.0 ± 1.0 .
3. If using the dilute-to-specification method, complete the dilution required.

Inoculation of Vial

1. Inoculate the vial with up to 5.0 mL of the sample to be tested. If using specification monitoring, add the volume of the appropriate dilution required and add Butterfield's buffer to make up total volume of 10 mL.
2. Cap the vial and gently invert 3 times to mix sample. Keep cap tight.
3. Insert the vial into the Soleris instrument set at $35^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and run for the pre-programmed test duration. It is not recommended to adjust the parameters without consulting Neogen Technical Services.

Incubation Temperatures

$35^{\circ}\text{C} \pm 2^{\circ}\text{C}$ or as indicated by trainer

Algorithm Utilized:

Test	Threshold	Skip	Shuteye	Duration	Temperature
S2-EBAC5	10	1	25	14–18 hours	$35 \pm 2^{\circ}\text{C}$

Disclaimers:

Information provided is based on validation procedures that Neogen performed in Neogen laboratories. Deviation from procedures is possible, but should be discussed with Neogen Technical Services.

Samples may need to be pH adjusted for all vials.

Appearance of the vials should be inspected prior to use.

If shuteye detections are observed, the threshold may need to be adjusted based on the product matrix. Certain product matrices may require parameter adjustments, including increased test duration. For more information contact Neogen Technical Services.



800-234-5333 (USA/Canada) or 517-372-9200
foodsafety@neogen.com • foodsafety.neogen.com

