

# Enterobacteriaceae Vial - 9 mL

Product No. S2-EBAC9

Instructions for use in Soleris Instrument



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

The *Enterobacteriaceae* Vial, 9 mL (S2-EBAC9) is a screening vial specific for organisms in the family *Enterobacteriaceae*. 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:

1. S2-EBAC9, *Enterobacteriaceae* vial, 9.0 mL

## 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 as D/E Neutralizer, TAT Broth, Modified Letheen Broth, etc.

## Vial Specifications

1. Vial pH is  $6.7 \pm 0.2$
2. Vial sample capacity up to 1.0 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 (See Soleris Manual, section 1.7).
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  $7.0 \pm 1.0$ .
3. If using the dilute-to-specification method, complete the dilution required.

## Inoculation of Vial

1. Inoculate the vial with no more than 1.0 mL and no less than 0.10 mL of the sample to be tested. If using dilute-to-specification method, add the volume of the appropriate dilution required.
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°C or as indicated by trainer. The incubation temperature and test duration can be optimized if required. It is not recommended to adjust parameters without consulting Neogen Technical Services.

## Incubation Temperatures

35°C  $\pm$  2°C or as indicated by trainer

## Algorithm Utilized:

Test	Threshold	Skip	Shuteye	Duration	Temperature
S2-EBAC9	10	1	25	14–18 hours	35 $\pm$ 2°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.