Laboratory Guidebook  
Notice of Change

Chapter new, revised, or archived: MLG 41 Appendix 2.03

Title: FSIS Laboratory Specific Flow Chart for *Campylobacter jejuni/coli/lari* Enrichment Analysis

Effective Date: 08/16/21

Description and purpose of change(s):

This flow chart was issued in association with MLG 41. The microscopy and latex agglutination confirmation testing were replaced with Bruker® MALDI Biotyper analysis.
Poultry Rinse or Sponge or Raw Poultry Product Samples + Enrichment Broth (Sample receipt temperature of 0 – 15°C is required)

Transfer 30 mL of poultry rinse + 30 mL of 2X BF-BEB\(^1\) to a vented culture flask or Whirl-Pak\(^6\) bag and mix well.
Transfer 30 mL of raw poultry product diluted 1:6 in BPW\(^2\) + 30 mL of 2X BF-BEB to a vented culture flask or Whirl-Pak\(^6\) bag and mix well.
Add 25 mL of 2X BF-BEB to carcass sponge sample containing 25 mL of transport media and mix well.
Incubate for 48 ± 2 hrs @ 42 ± 1 °C in a sealed container applying appropriate microaerobic conditions.

When typical Campylobacter colonies are found, pick at least one typical colony from the plate in preparation for isolate confirmation.

Perform Bruker\(^\circledR\) MALDI Biotyper analysis.

Perform Campylobacter screen using 3M™ Molecular Detection System

Select sample to sufficiently dried Campy-Cefex plate for isolation.
Place plate into a sealed container applying the appropriate microaerobic conditions.
Incubate for 48 ± 2 hrs @ 42 ± 1°C.

Whole Genome Sequencing (WGS) is performed on confirmed positive and inconclusive isolates at each FSIS FSL\(^3\) and results are reported.

\(^1\) 2X BF-BEB = Double strength blood free Bolton enrichment broth and supplements
\(^2\) BPW = Buffered peptone water
\(^3\) FSIS FSL = Food Safety and Inspection Service Field Service Laboratories