

Standard Operating Procedure

SOP Number: **02-18-5627**

Service: **Research**

Operating Section: **Laboratory**

Unit: **CMF**

Title: **Performing a Salmonella-Shigella Culture**

Purpose:

To detect and identify *Salmonella* and *Shigella* organisms in a fecal or rectal sample.

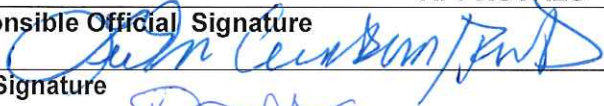

Procedure

- 1) Log the sample into the lab accession log book and assign a lab accession number.
- 2) Using a sterile 10ul inoculating loop, transfer and streak out an aliquot to a Salmonella/Shigella (S/S) agar plate labeled with the lab accession number. Incubate plates at least 24 hours in a 37°C incubator.
- 3) Examine plates for growth. *Salmonella spp.* colonies will be colorless with or without black centers. *Shigella spp.* colonies will be colorless. Isolate suspect colonies to blood agar plate with a sterile loop or needle. Incubate 24 hours in a 37°C incubator.
- 4) Make a gram stain of isolated colonies. *Salmonella spp.* are bright pink, gram negative, bacilli often arranged in pair or clumps. *Shigella spp.* are long, light pink, gram negative, bacilli often arranged in pairs or chains.
- 5) Identify organisms using Analytical Profile Index (API) test strips.

Results

- 1) Results will be reported as "Negative" if no *Salmonella* nor *Shigella* organisms are identified.
- 2) Microorganisms identified as *Salmonella* or *Shigella* will be reported to genus and species when possible.
- 3) Verification testing by alternate methods and outside laboratories may be completed as appropriate.

APPROVALS

Responsible Official	Signature	Date	
		12/06/2017	
QA	Signature	Date	
		12/06/2017	
Version	Effective Date	Supersedes	Original Date
#2		#1	