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.

<table>
<thead>
<tr>
<th>APPROVALS</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Responsible Official Signature</td>
<td>12/06/2017</td>
</tr>
<tr>
<td>QA Signature</td>
<td>12/06/2017</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Version</th>
<th>Effective Date</th>
<th>Supersedes</th>
<th>Original Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>#2</td>
<td></td>
<td>#1</td>
<td></td>
</tr>
</tbody>
</table>

Lab 5627                                      Page 1 of 1