

Appendix E: Collection and Submission of Food Samples

- 1) Collection and Submission of Food Sample for Bacteriological Examination**
- 2) Lab Form 504**
- 4) Reference List of Tests**
- 5) Flow Charts for Food Sample Testing**

Blank Page



Collection and Submission of Food Sample for Bacteriological Examination

Supplies Needed for Food Sample Collection



Food Collection Kit



State Seal DFS-224

Submission Form LAB504

Collection



Food Collection



State Seal



Packaging

1. Collect a minimum of 100 grams (3.5oz) of food using septic techniques.
2. When possible submit food in original and/or an unopened container.
3. If the sample is not in the original container, transfer sample to appropriate sterile container using the sealed utensils provided in the food collection kit .
4. Seal container with official seal.
5. Samples should be shipped temperature controlled to prevent compromising the integrity of the sample. When in doubt refrigerate sample during transport. Use freezer packs. Frozen samples should be kept frozen.
6. Place sample in cardboard box with styrofoam cooler or use other type of mailable package. Cushion sample to reduce movement during shipment.
7. Completely fill out a submission form for each sample (Lab504). Lab504 can be printed from <http://chfs.ky.gov/dph/info/lab/Forms.htm>
8. Replace styrofoam lid and place Lab form 504 on top.
9. Seal box with tape and place shipping label on the outside of the box.
10. The laboratory will accept and test authorized food samples only. Contact the Food Safety Branch at (502)564-7181 and the Division of Epidemiology, Infectious Disease Branch, Reportable Disease section at (502)564-3261 for authorization of all food samples before shipping.
11. Ship or transport food samples overnight/next day.

If you have any questions about collection or submission of food samples, contact the Division of Laboratory Services at (502) 564-4446.

Blank Page

Sample Collection Data and Analysis Report
 Kentucky Cabinet for Health and Family Services, Department for Public Health
Division of Laboratory Services
 100 Sower Blvd., North Loading Dock
 Frankfort, Kentucky 40602-2020
 Phone: 502/564-4446 Fax: 502/564-7019
Jeremy Hart, MD, FCAP, Director



Kentucky Public Health
 Prevent. Promote. Protect.

Please complete a separate form for each sample submitted.

Sample No.:	Date Collected:	Time:	Cost of Sample:
Collector/ Health Dept.: (Name and Title)		Sample Procured From: (Signature)	
Reason for Collection:		Establishment Number:	
Amount in Lot before Sampling:			
Description of Sample (Code No. if any), & Method of Collection:			
Mail Report To:		Address:	Zip:
Collector Remarks:			
Collector Signature:			
Requested Laboratory Analysis: <input type="checkbox"/> Bacteriological <input type="checkbox"/> Chemical <input type="checkbox"/> Other			
<input type="checkbox"/> Aerobic Plate Count	<input type="checkbox"/> Staph aureus <input type="checkbox"/> Count <input type="checkbox"/> Toxin	<input type="checkbox"/> Salmonella species	<input type="checkbox"/> Pesticide Residue
<input type="checkbox"/> Coliform Count	<input type="checkbox"/> Bacillus cereus <input type="checkbox"/> Count <input type="checkbox"/> Toxin	<input type="checkbox"/> Shigella species	<input type="checkbox"/> Trace Metals (Water)
<input type="checkbox"/> Enterobacteriaceae Count	<input type="checkbox"/> Clostridium perfringens Count	<input type="checkbox"/> E. coli O157: H7	Specify Metal(s):
<input type="checkbox"/> E. coli Count	<input type="checkbox"/> Campylobacter species	<input type="checkbox"/> Non- O157 STEC	<input type="checkbox"/> Other (Describe)
<input type="checkbox"/> Mold & Yeast Count	<input type="checkbox"/> Listeria species	Specify:	

Laboratory Receiving Record **Lab Accession #** _____

DATE/TIME	RELEASED BY	RECEIVED BY	PURPOSE OF CHANGE
	Signature	Signature	Sample placed in _____ unit for storage.
	Print Name	Print Name	
	Signature	Signature	
	Print Name	Print Name	

State Seal Attached? Intact Broken None Sample and Package Condition: Good Other _____

Sample Received: Refrigerated Frozen Other (Describe) _____ Received Temperature: _____

Report of Laboratory Analysis:

Comments:

Date Started	Date Completed	Date Reported	Signature of Analyst: Laboratory Services
--------------	----------------	---------------	--

No Further Regulatory Action is indicated on this sample

Analysis indicates sample is in violation of the following law and/or regulations based thereon. (Check appropriate one):

KRS 217.801 Lead Based Paint Law; KRS 217.005 to 217.215 KY Food, Drug, & Cosmetic Act; KRS 217.650 to 217.710 KY Hazardous Substances Labeling Act; KRS 217C KY Milk and Milk Products Act; KRS 152.105 to 152.190 Regulates Use and Control of Radiation.

Sample Considered: Adulterated Misbranded Other

Further Regulatory Action: Resample Reinspect Official Action Other

Blank Page

Reference List of Tests

BOTULISM

DLS Department:	Preparedness
OUTREACH Test Code:	MEP
Includes:	Clostridium Botulinum Identification and Confirmation
Methodology:	ELISA, Mouse Bioassay, Culture
Availability:	
Turn-around-Time:	Food: 24-96 hours toxin test, 5-12 days culture Stool: 24-96 hours toxin test, 5-12 days culture Serum: 24-96 hours
Specimen Requirements:	Patient's physician must consult the Division of Epidemiology to verify the need to perform appropriate tests
Collection Kit/Container:	Consult with DLS for specific information of collecting and submitting specimens
Patient Preparation:	
Collection and Packaging Instructions:	Serum: 10ml Stool: 10-50g Enema Wash: 20ml Infants- Stool or Enema Wash
Specimen Handling and Transport:	
Reference Range:	ELISA: "No botulinum toxin A, B, E or F detected. Assay does not detect botulinum toxins C, D and G". Mouse Bioassay: No C. botulinum toxin detected by mouse bioassay Culture: No C. botulinum isolated
CPT Code:	87003; 87158; 87076
Additional Comments:	Refer to the Sentinel Guidelines on asm.org for more information

Reference List of Tests

CAMPYLOBACTER	
DLS Department:	Bacteriology (clinical) Environmental Microbiology (Food)
OUTREACH Test Code:	CAMP
Includes:	
Methodology:	Culture
Availability:	M-F
Turn-around-Time:	Clinical specimen- 4-7 days Pure culture isolate- 3-5 days Food- 5-15 days
Specimen Requirements:	Clinical- Feces Isolate- swab from culture in Cary Blair, Campy thio or Campy blood plate in bag with Campy gas or in semi-solid motility type media. Chocolate slant is also acceptable.
Collection Kit/Container:	Clinical: Cary Blair Transport Media Isolate: Submitter packaging
Collection and Packaging Instructions:	http://chfs.ky.gov/NR/ronlyres/73A1085E-AD36-44C5-8EF8-EDED9E062BB9/0/Enterics2017web.pdf
Specimen Handling and Transport:	Feces- mail immediately after collection on cold pack. Isolate-Provide fresh growth slant; mail immediately; avoid extreme temperatures Food- Call laboratory; ship overnight in cooler with cold packs
Unacceptable Conditions:	Stool 7 days or older
Reference Range:	NA
CPT Code:	87040; stool 87046
Additional Comments:	Food- By request of Epidemiology or Food Safety Branch ONLY for investigation of foodborne disease outbreaks

Reference List of Tests

ESCHERICHIA COLI

DLS Department:	Bacteriology Environmental Microbiology
OUTREACH Test Code:	ECO
Includes:	Shiga-toxin producing E.coli
Methodology:	Isolation/Identification and Antigenic typing/ Food Culture
Availability:	M-F
Turn-around-Time:	Clinical 4-5 days/ Food 48 hrs-15 days
Specimen Requirements:	Clinical- Feces Identification and Antigenic typing- Agar slant: Heart infusion, trypticase soy, blood or chocolate Food- By request of Epidemiology or Food Safety Branch ONLY for investigation of foodborne disease outbreaks
Collection Kit/Container:	Clinical- Enteric pathogens kit with Cary Blair or Amies transport media Isolate – Pure fresh growth on agar slant Food- Food Kit
Collection and Packaging Instructions:	http://chfs.ky.gov/NR/rdonlyres/73A1085E-AD36-44C5-8EF8-EDED9E062BB9/0/Enterics2017web.pdf
Specimen Handling and Transport:	Clinical- Mail immediately after collection to be rec'd in 24 hrs Isolation- Provide fresh growth slant; mail immediately Food - Food specimens - Ship overnight in cooler with cold packs. Call laboratory before sending specimens.
Unacceptable Conditions:	Stools 7 days or older
Reference Range:	NA
CPT Code:	Stool 87046, 87147 PCR 87150
Additional Comments:	Collect during acute stage (Days 1-3) of diarrheal disease and before initiation of anti-microbial or drug therapy.

Reference List of Tests

LISTERIA MONOCYTOGENES

DLS Department:	Bacteriology (clinical) Environmental Microbiology (Food)
OUTREACH Test Code:	MC (clinical)
Includes:	Environmental Microbiology identifies Listeria species
Methodology:	Identification/Culture/Molecular
Availability:	M-F
Turn-around-Time:	4-6 days
Specimen Requirements:	Clinical- Pure culture TSA or blood agar slant Environmental- Food
Collection Kit/Container:	
Collection and Packaging Instructions:	Submitter packaging for clinical isolates Food: http://chfs.ky.gov/NR/rdonlyres/60E2687E-19FA-4DC9-8B33-AC798D70167A/0/RevisedFoodSampleCollection.pdf
Specimen Handling and Transport:	Clinical- Provide fresh growth on slant. Mail immediately to be received within 24 hours. Avoid extreme temperatures Food specimens - Ship overnight in cooler with cold packs. Call laboratory before sending specimens.
Unacceptable Conditions:	
Reference Range:	NA
CPT Code:	Clinical- 87077, 87153
Additional Comments:	Clinical – Call the laboratory if Listeria is suspected and when specimen is shipped. Food- By request of Epidemiology or Food Safety Branch ONLY for investigation of foodborne disease outbreaks.

Reference List of Tests

SALMONELLA	
DLS Department:	Bacteriology/ Environmental Microbiology
OUTREACH Test Code:	Stools- SGT Culture isolate- SGT
Includes:	All Sero-Types
Methodology:	Isolation Identification Antigenic Testing
Availability:	M-F
Turn-around-Time:	Clinical-8-10 days Food- 5-15 days
Specimen Requirements:	Isolation- Stool Identification and Antigenic Typing- Pure culture isolate. Agar slant: Heart infusion, trypticase soy, blood or chocolate agar
Collection Kit/Container:	Stools - Cary Blair
Collection and Packaging Instructions:	http://chfs.ky.gov/NR/rdonlyres/73A1085E-AD36-44C5-8EF8-EDED9E062BB9/0/Enterics2017web.pdf
Specimen Handling and Transport:	Food specimens - Ship overnight in cooler with cold packs. Call laboratory before sending specimens.
Unacceptable Conditions:	Stools 7 days or older
Reference Range:	
CPT Code:	Stool- 87045 Identification and Antigenic Typing- 87147
Additional Comments:	Stool-Mail immediately after collection; to be received within 24 hours. Provide fresh grown on slants and mail immediately at room temperature. Food- By request of Epidemiology or Food Safety Branch/ONLY for investigation of foodborne disease outbreaks

Reference List of Tests

SHIGELLA

DLS Department:	Bacteriology/ Environmental Microbiology
OUTREACH Test Code:	Stools- SHGR Culture isolate- SHGR
Includes:	All Sero-Types
Methodology:	Isolation Identification and antigenic typing
Availability:	M-F
Turn-around-Time:	Clinical-8-10 days Food- 5-15 days
Specimen Requirements:	Isolation- Stool Identification and Antigenic Typing- Pure culture isolate. Agar slant: Heart infusion, trypticase soy, blood or chocolate agar
Collection Kit/Container:	Stools - Cary Blair
Collection and Packaging Instructions:	http://chfs.ky.gov/NR/rdonlyres/73A1085E-AD36-44C5-8EF8-EDED9E062BB9/0/Enterics2017web.pdf
Specimen Handling and Transport:	Food specimens - Ship overnight in cooler with cold packs. Call laboratory before sending specimens.
Unacceptable Conditions:	Stools 7 days or older
Reference Range:	
CPT Code:	Stool- 87045 Identification and Antigenic Typing- 87147
Additional Comments:	Stool-Mail immediately after collection; to be received within 24 hours. Provide fresh grown on slants and mail immediately at room temperature. Food- By request of Epidemiology or Food Safety Branch/ONLY for investigation of foodborne disease outbreaks

Reference List of Tests

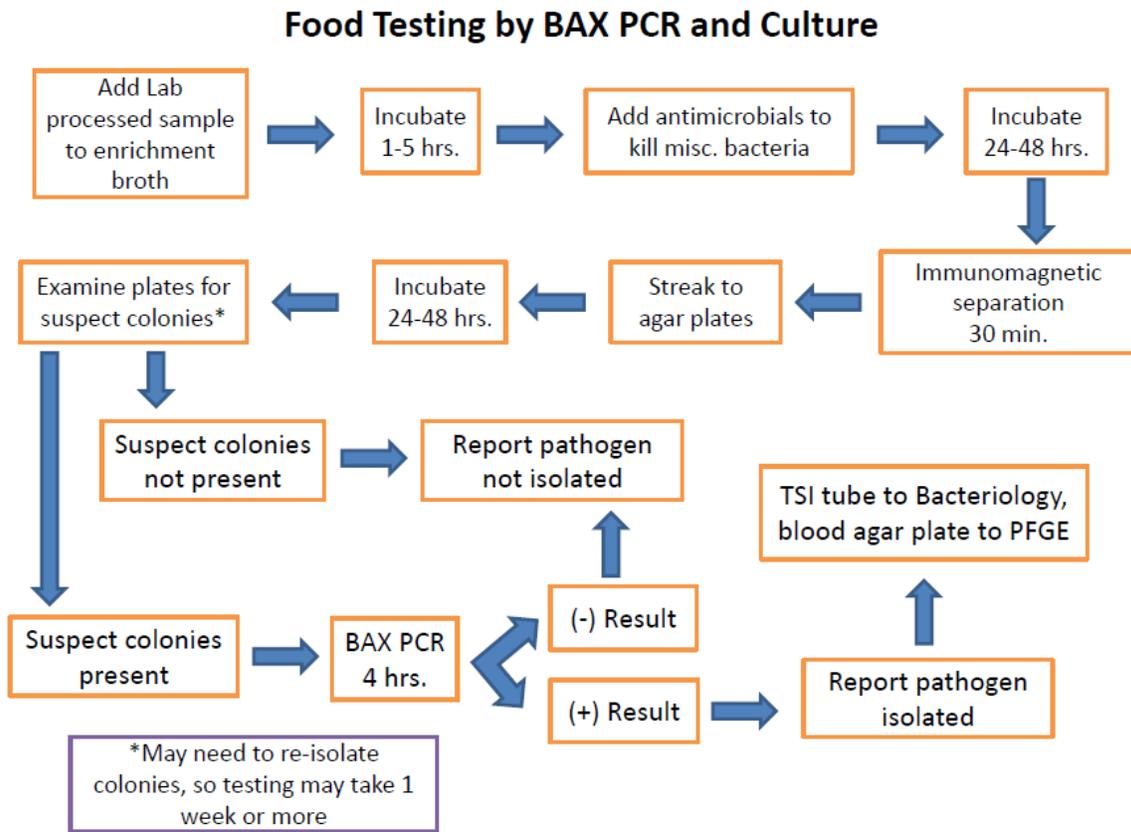
STAPHYLOCCUS AUREUS

DLS Department:	Bacteriology
OUTREACH Test Code:	Stool - MEP Pure culture isolate on agar slant- MC
Includes:	
Methodology:	Isolation and Identification
Availability:	M-F
Turn-around-Time:	Stool-3-7 days Pure culture isolate- 24hrs- 7days Food- 5-15 days
Specimen Requirements:	Clinical- Stool Isolation- Pure culture isolate on agar slant: Heart Infusion, trypticase soy, blood or chocolate agar slant Food- By request of Epidemiology or Food Safety Branch/ ONLY for investigation of foodborne disease outbreaks
Collection Kit/Container:	Clinical – Stool -Cary Blair Transport Media
Collection and Packaging Instructions:	Clinical: http://chfs.ky.gov/NR/rdonlyres/73A1085E-AD36-44C5-8EF8-EDED9E062BB9/0/Enterics2017web.pdf Food: http://chfs.ky.gov/NR/rdonlyres/60E2687E-19FA-4DC9-8B33-AC798D70167A/0/RevisedFoodSampleCollection.pdf
Specimen Handling and Transport:	Food specimens - Ship overnight in cooler with cold packs. Call laboratory before sending specimens.
Unacceptable Conditions:	Stools 7 days or older.
Reference Range:	NA
CPT Code:	87046, 87153
Additional Comments:	Clinical testing- Only by request of the Division of Epidemiology. Stool-Mail immediately after collection; to be received within 24 hours. Isolate - Provide fresh grown on slants and mail immediately at room temperature. Food- By request of Epidemiology or Food Safety Branch. ONLY for investigation of foodborne disease outbreaks.

Blank Page

Flow Charts for Food Sample Testing

Please note that the following flow charts do not reflect the entire work process for testing of laboratory specimens. Rather, they have been simplified to provide a basic description of specimen flow through the lab and the testing process. These flow charts are intended to provide a general idea of the steps and time required for testing.



Blank Page