Appendix E: Collection and Submission of Food Samples

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

Collection and Submission of Food Sample for Bacteriological Examination

Collection and Submission of Food Sample for Bacteriological Examination



Supplies Needed for Food Sample Collection







State Seal DFS-224



Submission Form LAB504

Collection



Food Collection

- Collect a minimum of 100 grams (3.5oz) of food using septic techniques.
 When possible submit food in original and/or an unopened container.
- 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.



- 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.
- Place sample in cardboard box with styrofoam cooler or use other type of mailable package. Cushion sample to reduce movement during shipment.



State Seal

Packaging

- 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 ection at (502)564-3261 for authorization of all food samples before shipping.
- 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.

1/2018

COLLECTION AND SUBMISSION OF FOOD SPECIMENS

Lab Form 504

Lab form 504 (Rev. 11/2020)

Signature

Sample Collection Data and Analysis Report
Kentucky Cabinet for Health and Family Services, Department for Public Health
Division of Laboratory Services
100 Sower Blvd.
Frankfort, Kentucky 40601
Phone: 502/782-7713 Fax: 502/564-7019



Date

Agency

	Please c	omplete a separate form for each	sample submitted.	
Sample No.:	Date	e Collected: Tim	e: Cos	st of Sample:
Collector/ He (Name and Title)	ealth Dept.:		Sample Procure	d From:
Reason for C	ollection: (Regulatory, Outbreak,	Complaint)	(Signature) Establishment	Number:
Amount in Lo	ot before Sampling:			
TATOTAL CAPTURE OF THE STATE OF	of Sample (Code No. if any), & M	ethod of Collection:	I	
Mail Report 1	To:	Address:		Zip:
ollector Rei	marks: (Note if submitted by someon	e other than the collector)		
Collector Sig	nature:	Submitter Signa		
Aerobic Pla Coliform Co Enterobact E. coli Cou	ount Bacillus cere eriaceae Count Clostridium p nt Campylobac ast Count Listeria spec	S Count Toxin Sus Count Toxin Sus Count Toxin Sus Count Toxin Susperfringens Count Susperfringens Count Suspers Co	Salmonella specie	Trace Metals (Water) Specify Metal(s):
DATE/ TIME	RELEASED BY (Collector/Submitter)	RECEIVE (Lab staff, unless other		PURPOSE OF CHANGE (Lab use, unless otherwise indicated
	Signature	Signature	43 4	Transport
	Print Name	Print Name	e e	Storage (unit #)
*	Signature	Signature	***************************************	Tresuing
	Print Name	Print Name		
	ached? Intact Broken N			Good Other
CONTRACTOR CONTRACTOR	boratory Analysis:			
Date Started	Date Completed	Date Reported	Signature of A	Analyst: Laboratory Services
Analysis indicate: KRS 217.801 I Substances Labe	gulatory Action is indicated on this sample is sample is in violation of the following law Lead Based Paint Law; KRS 217.005 kling Act; KRS 217C KY Milk and Milk	v and/or regulations based thereo 5 to 217.215 KY Food, Drug, & Co k Products Act;	smetic Act, 🔲 KR	S 217.650 to 217.710 KY Hazardous
ample Consider urther Regulato	red: Adulterated Misbranded ry Action: Resample Reinspect			

Title

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 for approval and to verify the need to perform appropriate tests
Collection Kit/Container:	Consult with DLS for specific information of collecting and submitting specimens
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

CAMPYLOBACTER		
DLS Department:	Bacteriology (clinical) Environmental Microbiology (Food)	
OUTREACH Test Code:	CAMP	
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:	https://chfs.ky.gov/agencies/dph/dls/Pages/default.aspx Food-Food Kit	
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	

ESCHERICHIA COLI		
DLS Department:	Bacteriology Environmental Microbiology	
OUTREACH Test Code:	ECO	
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:	https://chfs.ky.gov/agencies/dph/dls/Pages/default.aspx Enterics Collection and Packaging	
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.	

DLS Department:	Bacteriology (clinical)
DES Department.	Environmental Microbiology (Food)
OUTREACH Test Code:	MC (clinical)
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: https://chfs.ky.gov/agencies/dph/dls/Pages/default.aspx Food Kit
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.
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.

SALMONELLA		
DLS Department:	Bacteriology/ Environmental Microbiology	
OUTREACH Test Code:	Stools- SGT Culture isolate- SGT	
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:	https://chfs.ky.gov/agencies/dph/dls/Pages/default.aspx Clinical – Enteric Food-Food Kit	
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	

SHIGELLA		
DLS Department:	Bacteriology/ Environmental Microbiology	
OUTREACH Test Code:	Stools- SHGR Culture isolate- SHGR	
Methodology:	Isolation Identification and antigentic 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:	https://chfs.ky.gov/agencies/dph/dls/Pages/default.aspx Clinical – Enteric Food-Food Kit	
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	

STAPHYLOCCUS AUREUS		
DLS Department:	Bacteriology	
OUTREACH Test Code:	Stool - MEP Pure culture isolate on agar slant- MC	
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:	https://chfs.ky.gov/agencies/dph/dls/Pages/default.aspx Enteric Collection Food Kit	
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	

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.

