

# KY DLS Reference List of Tests

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## ACYLCARNITINES

<b>DLS Department:</b>	Newborn Screening 502-564-4446 x 4716
<b>OUTREACH Test Code:</b>	Order through KY Child
<b>Includes:</b>	<p><b>FATTY ACID DISORDERS:</b> Carnitine uptake defect, Long-chain -3hydroxyacyl-CoA dehydrogenase deficiency (LCHAD), Medium-chain acyl-CoA dehydrogenase deficiency (MCAD), Short-chain acyl-CoA dehydrogenase deficiency (SCAD), Trifunctional protein deficiency, Very long-chain acyl-CoA dehydrogenase deficiency (VLCAD)</p> <p><b>ORGANIC ACID DISORDERS:</b> 3-methylcrotonyl CoA-Carboxylase Deficiency, Beta-ketothiolase, Glutaric acidemia type 1, Isovaleric acidemia, 3-hydroxy 3-methylglutaric aciduria, Methylmalonic acidemia, Methylmalonic acidemia mutase deficiency, Propionic Acidemia</p>
<b>Methodology:</b>	MSMS
<b>Availability:</b>	M-Sat
<b>Turn-around-Time:</b>	48-72 hours
<b>Specimen Requirements:</b>	Heel-stick blood applied to filter paper (Ensure no preservative or heparin contamination)
<b>Collection Kit/Container:</b>	Filter paper cards (Form #228) obtained through State Lab 502-564-4446 x 4716
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	<a href="http://chfs.ky.gov/NR/ronlyres/52B8F723-8456-4DA6-9692-6CF8F7A1EBEF/0/newbornscreening2013.pdf">http://chfs.ky.gov/NR/ronlyres/52B8F723-8456-4DA6-9692-6CF8F7A1EBEF/0/newbornscreening2013.pdf</a>
<b>Specimen Handling and Transport:</b>	Mail in envelope. Do not fold. Do not place in plastic bag. For additional instructions, see back of filter paper card.
<b>Unacceptable Conditions:</b>	Specimens with layered blood spots, clotted, separated, or inadequate blood
<b>Reference Range:</b>	Within Profile Range
<b>CPT Code:</b>	HCPCS Code: S3620
<b>Additional Comments:</b>	Testing is for infants < 6 months of age Sub-optimal if received >14 days from collection

## ADENOVIRUS

<b>DLS Department:</b>	Virology	502-564-4446 x 4483
<b>OUTREACH Test Code:</b>	RESP	
<b>Includes:</b>		
<b>Methodology:</b>	PCR	
<b>Availability:</b>	M-F	
<b>Turn-around-Time:</b>	3-7 days	
<b>Specimen Requirements:</b>	Throat wash, throat swab	
<b>Collection Kit/Container:</b>	M4RT viral media/Multishipper with cold pack	
<b>Patient Preparation:</b>		
<b>Collection and Packaging Instructions:</b>	<a href="http://chfs.ky.gov/NR/ronlyres/A6C1649B-E5C1-4B68-9433-86FF928DC850/0/virus2013.pdf">http://chfs.ky.gov/NR/ronlyres/A6C1649B-E5C1-4B68-9433-86FF928DC850/0/virus2013.pdf</a>	
<b>Specimen Handling and Transport:</b>	Ship with cold pack; Freeze specimen if not shipped within 48hrs.	
<b>Unacceptable Conditions:</b>	Expired M4RT	
<b>Reference Range:</b>	No Respiratory Virus Isolated	
<b>CPT Code:</b>	87253	
<b>Additional Comments:</b>		

## AMINO ACID DISORDERS

<b>DLS Department:</b>	Newborn Screening 502-564-4446 x 4716
<b>OUTREACH Test Code:</b>	Order through KY Child
<b>Includes:</b>	Argininosuccinic Acidemia, Citrullinemia, Homocystinuria, Maple Syrup Urine Disease, Phenylketonuria, Tyrosinemia
<b>Methodology:</b>	MSMS
<b>Availability:</b>	M-Sat
<b>Turn-around-Time:</b>	48-72 hours
<b>Specimen Requirements:</b>	Heel-stick blood applied to filter paper (Ensure no preservative or heparin contamination)
<b>Collection Kit/Container:</b>	Filter paper cards (Form #228) obtained through State Lab 502-564-4446 x 4716
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	<a href="http://chfs.ky.gov/NR/rdonlyres/52B8F723-8456-4DA6-9692-6CF8F7A1EBEF/0/newbornscreening2013.pdf">http://chfs.ky.gov/NR/rdonlyres/52B8F723-8456-4DA6-9692-6CF8F7A1EBEF/0/newbornscreening2013.pdf</a>
<b>Specimen Handling and Transport:</b>	Mail in envelope. Do not fold. Do not place in plastic bag. For additional instructions, see back of filter paper card.
<b>Unacceptable Conditions:</b>	Specimen with layered blood spots, clotted, separated, or inadequate blood
<b>Reference Range:</b>	Within Profile Range
<b>CPT Code:</b>	HCPCS Code: S3620
<b>Additional Comments:</b>	Testing is for infants < 6 months of age

# ANTHRAX

<b>DLS Department:</b>	Preparedness 502-564-4446 x 4460
<b>OUTREACH Test Code:</b>	MC
<b>Includes:</b>	
<b>Methodology:</b>	Culture/PCR
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	24-72 hours for Culture/ 24-48 hours for PCR
<b>Specimen Requirements:</b>	Culture- Clinical Specimen or isolated culture on tubed media PCR- Pure isolated culture on tubed media
<b>Collection Kit/Container:</b>	
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	Call the Division of Epidemiology (888-9-REPORT) or the Division of Laboratory Services for specific instructions before sending any specimens.
<b>Specimen Handling and Transport:</b>	
<b>Unacceptable Conditions:</b>	
<b>Reference Ranges:</b>	No bacillus anthracis isolated
<b>CPT Code:</b>	Identification 87081 PCR 87073
<b>Additional Comments:</b>	
<b>Additional Tests Performed:</b>	



## BACILLUS ANTHRACIS

<b>DLS Department:</b>	Preparedness 502-564-4446 x 4460
<b>OUTREACH Test Code:</b>	MC
<b>Includes:</b>	
<b>Methodology:</b>	Culture/PCR
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	24-72 hours for Culture/ 24-48 hours for PCR
<b>Specimen Requirements:</b>	Culture- Clinical Specimen or isolated culture on tubed media PCR- Pure isolated culture on tubed media
<b>Collection Kit/Container:</b>	
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	Call the Division of Epidemiology (888-9-REPORT) or the Division of Laboratory Services for specific instructions before sending any specimens.
<b>Specimen Handling and Transport:</b>	
<b>Unacceptable Conditions:</b>	
<b>Reference Ranges:</b>	No Bacillus anthracis isolated
<b>CPT Code:</b>	Identification 87081 PCR 87073
<b>Additional Comments:</b>	





## BACILLUS CEREUS

<b>DLS Department:</b>	Bacteriology 502-564-4446 x 4459 Environmental Microbiology 502-564-4446 x 4462
<b>OUTREACH Test Code:</b>	MEP
<b>Includes:</b>	
<b>Methodology:</b>	Culture/ Isolation/ PCR
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	Clinical 4-7 days/ Food 4-15 days
<b>Specimen Requirements:</b>	Clinical- Feces Isolate- 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
<b>Collection Kit/Container:</b>	Clinical – Cary Blair Transport Media
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	<a href="http://chfs.ky.gov/NR/rdonlyres/73A1085E-AD36-44C5-8EF8-EDED9E062BB9/0/entericscaryblair2013.pdf">http://chfs.ky.gov/NR/rdonlyres/73A1085E-AD36-44C5-8EF8-EDED9E062BB9/0/entericscaryblair2013.pdf</a>
<b>Specimen Handling and Transport:</b>	Clinical- Mail immediately after collection Isolation- Provide fresh growth slant; mail immediately Food - Specimen must be shipped overnight in cooler with cold packs. Call laboratory before sending.
<b>Unacceptable Conditions:</b>	≥ 7 days from collection
<b>Reference Range:</b>	Clinical – No B. cereus isolated Food - <100 cfu/g
<b>CPT Code:</b>	Stool 87045; Vomitus 87070 PCR 83890,89898, 83912
<b>Additional Comments:</b>	Collect during acute stage (Days 1-3) of diarrheal disease and before initiation of anti-microbial or drug therapy.

## BIOTINIDASE DEFICIENCY

<b>DLS Department:</b>	Newborn Screening 502-564-4446 x 4716
<b>OUTREACH Test Code:</b>	Order through KY Child
<b>Includes:</b>	
<b>Methodology:</b>	FIA
<b>Availability:</b>	M-Sat
<b>Turn-around-Time:</b>	48-72 hours
<b>Specimen Requirements:</b>	Heel-stick blood applied to filter paper
<b>Collection Kit/Container:</b>	Filter paper cards (Form #228) obtained through State Lab 502-564-4446 x 4716
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	<a href="http://chfs.ky.gov/NR/rdonlyres/52B8F723-8456-4DA6-9692-6CF8F7A1EBEF/0/newbornscreening2013.pdf">http://chfs.ky.gov/NR/rdonlyres/52B8F723-8456-4DA6-9692-6CF8F7A1EBEF/0/newbornscreening2013.pdf</a>
<b>Specimen Handling and Transport:</b>	Mail in envelope. Do not fold. Do not place in plastic bag. For additional instructions, see back of filter paper card.
<b>Unacceptable Conditions:</b>	Specimens with layered blood spots, clotted, separated, or inadequate blood
<b>Reference Range:</b>	>45u/dL
<b>CPT Code:</b>	HCPCS Code: S3620
<b>Additional Comments:</b>	Testing is for infants < 6 months of age Sub-optimal if received >14 days from collection

## BORDETELLA PERTUSSIS

<b>DLS Department:</b>	Virology 502-564-4446 x 4483
<b>OUTREACH Test Code:</b>	RESP
<b>Includes:</b>	Respiratory Panel
<b>Methodology:</b>	PCR
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	PCR 24-48 hours
<b>Specimen Requirements:</b>	Nasopharyngeal swab placed immediately in viral transport media (VTM)
<b>Collection Kit/Container:</b>	Collection swabs must be polyester or Dacron with a plastic or aluminum shaft.
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	<a href="http://chfs.ky.gov/NR/rdonlyres/3680DCD1-BE12-472B-9734-670D8F34B80F/0/bordetellapertussis2013.pdf">http://chfs.ky.gov/NR/rdonlyres/3680DCD1-BE12-472B-9734-670D8F34B80F/0/bordetellapertussis2013.pdf</a>
<b>Specimen Handling and Transport:</b>	Specimens in VTM can be held at room temperature for 4 hours, 2-8°C for up to 3 days, or freezer temperature (<-15°C ) for up to 30 days.
<b>Unacceptable Conditions:</b>	Throat swab is not acceptable.
<b>Reference Range:</b>	Specific for detection only B. pertussis
<b>CPT Code:</b>	PCR 87798 x 2
<b>Additional Comments:</b>	Swabs made of cotton and/or wood are not acceptable.

## BOTULISM

<b>DLS Department:</b>	Preparedness 502-564-4446 x 4460
<b>OUTREACH Test Code:</b>	MEP
<b>Includes:</b>	Clostridium Botulinum Identification and Confirmation
<b>Methodology:</b>	ELISA, Mouse Bioassay, Culture
<b>Availability:</b>	
<b>Turn-around-Time:</b>	Food: 24-96 hours toxin test, 5-12 days culture Stool: 24-96 hours toxin test, 5-12 days culture Serum: 24-96 hours
<b>Specimen Requirements:</b>	Patient's physician must consult the Division of Epidemiology to verify the need to perform appropriate tests
<b>Collection Kit/Container:</b>	Consult with DLS for specific information of collecting and submitting specimens
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	Serum: 10ml Stool: 10-50g
<b>Specimen Handling and Transport:</b>	
<b>Unacceptable Conditions:</b>	
<b>Reference Range:</b>	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
<b>CPT Code:</b>	87001; 87158; 87076
<b>Additional Comments:</b>	

## BRUCELLOSIS

<b>DLS Department:</b>	Preparedness      502-564-4446 x 4460
<b>OUTREACH Test Code:</b>	MC
<b>Includes:</b>	
<b>Methodology:</b>	PCR/Culture Identification
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	PCR 24-48 hours Culture Identification 7 days
<b>Specimen Requirements:</b>	Pure culture isolate
<b>Collection Kit/Container:</b>	
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	Call the Division of Epidemiology (888-9-REPORT) or the Division of Laboratory Services for specific instructions before sending any specimens.
<b>Specimen Handling and Transport:</b>	Mailing container furnished by submitter
<b>Unacceptable Conditions:</b>	
<b>Reference Range:</b>	Identification of organism submitted
<b>CPT Code:</b>	PCR 86622 Culture Identification 87040
<b>Additional Comments:</b>	

## BURKHOLDERIA MALLEI BURKHOLDERIA PSEUDOMALLEI

<b>DLS Department:</b>	Preparedness      502-564-4446 x 4459
<b>OUTREACH Test Code:</b>	MC
<b>Includes:</b>	
<b>Methodology:</b>	PCR, Culture
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	PCR: 24-48 hours Culture: 9 days
<b>Specimen Requirements:</b>	Pure culture isolate
<b>Collection Kit/Container:</b>	
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	Call the Division of Epidemiology (888-9-REPORT) or the Division of Laboratory Services for specific instructions before sending any specimens.
<b>Specimen Handling and Transport:</b>	Mailing container furnished by submitter
<b>Unacceptable Conditions:</b>	
<b>Reference Range:</b>	Identification of organism submitted
<b>CPT Code:</b>	82950
<b>Additional Comments:</b>	

## CAMPYLOBACTER

<b>DLS Department:</b>	Bacteriology (clinical) 502-564-4446 x 4459 Environmental Microbiology (Food) 502-564-4446 x 4462
<b>OUTREACH Test Code:</b>	CAMP
<b>Includes:</b>	
<b>Methodology:</b>	Culture
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	Clinical specimen- 4-7 days Pure culture isolate- 3-5 days Food- 5-15 days
<b>Specimen Requirements:</b>	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.
<b>Collection Kit/Container:</b>	Clinical: Cary Blair Transport Media Isolate: Submitter packaging
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	Clinical: <a href="http://chfs.ky.gov/NR/rdonlyres/73A1085E-AD36-44C5-8EF8-EDED9E062BB9/0/entericscaryblair2013.pdf">http://chfs.ky.gov/NR/rdonlyres/73A1085E-AD36-44C5-8EF8-EDED9E062BB9/0/entericscaryblair2013.pdf</a>
<b>Specimen Handling and Transport:</b>	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
<b>Unacceptable Conditions:</b>	Stool 7 days or older
<b>Reference Range:</b>	NA
<b>CPT Code:</b>	87040; stool 87045
<b>Additional Comments:</b>	Food- By request of Epidemiology or Food Safety Branch ONLY for investigation of foodborne disease outbreaks

# CHICKENPOX

<b>DLS Department:</b>	Virology	502-564-4446 x 4484
<b>OUTREACH Test Code:</b>	VZE	
<b>Includes:</b>	See Varicella Zoster	
<b>Methodology:</b>		
<b>Availability:</b>		
<b>Turn-around-Time:</b>		
<b>Specimen Requirements:</b>		
<b>Collection Kit/Container:</b>		
<b>Patient Preparation:</b>		
<b>Collection and Packaging Instructions:</b>		
<b>Specimen Handling and Transport:</b>		
<b>Unacceptable Conditions:</b>		
<b>Reference Range:</b>		
<b>CPT Code:</b>		
<b>Additional Comments:</b>		



## CHLAMYDIA TRACHOMATIS

<b>DLS Department:</b>	Virus                      502-564-4446 x 4483
<b>OUTREACH Test Code:</b>	CTGC
<b>Includes:</b>	
<b>Methodology:</b>	Amplified Nucleic Acid Probe
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	24-48 hours
<b>Specimen Requirements:</b>	Endocervical swab, Vaginal swab, Male Urethral swab, Rectal swab, Pharyngeal Swab and Urine
<b>Collection Kit/Container:</b>	Endocervical, Male Urethral, Rectal and Pharyngeal Swabs use Aptima Unisex Kit. Vaginal use Aptima Vaginal Swab Kit Urine use Aptima Urine Kit
<b>Patient Preparation:</b>	Urine and Male Urethral Specimens – Patient should not have urinated for at least 1 hour prior to specimen collection.
<b>Collection and Packaging Instructions:</b>	<a href="http://chfs.ky.gov/NR/rdonlyres/B2DC7607-7525-4749-A34F-CDD906D2C37C/0/Multishipper.pdf">http://chfs.ky.gov/NR/rdonlyres/B2DC7607-7525-4749-A34F-CDD906D2C37C/0/Multishipper.pdf</a>
<b>Specimen Handling and Transport:</b>	
<b>Unacceptable Conditions:</b>	Swabs collected > 60 days; Urine > 30 days
<b>Reference Range:</b>	Negative
<b>CPT Code:</b>	87491
<b>Additional Comments:</b>	Only available through Local Health Department prenatal, family planning clinics, and STD clinics.

# CHOLERA

<b>DLS Department:</b>	Bacteriology	502-564-4446 x 44
<b>OUTREACH Test Code:</b>	VIB	
<b>Includes:</b>	See Vibrio Cholera	
<b>Methodology:</b>		
<b>Availability:</b>		
<b>Turn-around-Time:</b>		
<b>Specimen Requirements:</b>		
<b>Collection Kit/Container:</b>		
<b>Patient Preparation:</b>		
<b>Collection and Packaging Instructions:</b>		
<b>Specimen Handling and Transport:</b>		
<b>Unacceptable Conditions:</b>		
<b>Reference Range:</b>		
<b>CPT Code:</b>		
<b>Additional Comments:</b>		

## CLOSTRIDIUM BOTULINUM

<b>DLS Department:</b>	Bacteriology	502-564-4446 x 4460
<b>OUTREACH Test Code:</b>	MEP	
<b>Includes:</b>	See Botulism	
<b>Methodology:</b>		
<b>Availability:</b>		
<b>Turn-around-Time:</b>		
<b>Specimen Requirements:</b>		
<b>Collection Kit/Container:</b>		
<b>Patient Preparation:</b>		
<b>Collection and Packaging Instructions:</b>		
<b>Specimen Handling and Transport:</b>		
<b>Unacceptable Conditions:</b>		
<b>Reference Range:</b>		
<b>CPT Code:</b>		
<b>Additional Comments:</b>		

## CONGENITAL ADRENAL HYPERPLASIA

<b>DLS Department:</b>	Newborn Screening 502-564-4446 x 4433
<b>OUTREACH Test Code:</b>	Order through KY Child
<b>Includes:</b>	
<b>Methodology:</b>	FIA
<b>Availability:</b>	M-Sat
<b>Turn-around-Time:</b>	48-72 hours
<b>Specimen Requirements:</b>	Heel-stick blood applied to filter paper
<b>Collection Kit/Container:</b>	Filter paper cards (Form #228) obtained through State Lab 502-564-4446 x 4716
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	<a href="http://chfs.ky.gov/NR/rdonlyres/52B8F723-8456-4DA6-9692-6CF8F7A1EBEF/0/newbornscreening2013.pdf">http://chfs.ky.gov/NR/rdonlyres/52B8F723-8456-4DA6-9692-6CF8F7A1EBEF/0/newbornscreening2013.pdf</a>
<b>Specimen Handling and Transport:</b>	Mail in envelope. Do not fold. Do not place in plastic bag. For additional instructions, see back of filter paper card.
<b>Unacceptable Conditions:</b>	Specimens with layered blood spots, clotted, separated, or inadequate blood
<b>Reference Range:</b>	<25.0 ng/mL
<b>CPT Code:</b>	HCPCS Code: S3620
<b>Additional Comments:</b>	Testing is for infants < 6 months of age Sub-optimal if received >14 days from collection

## CONGENITAL HYPOTHYROIDISM

<b>DLS Department:</b>	Newborn Screening 502-564-4446 x 4716
<b>OUTREACH Test Code:</b>	Order through KY Child
<b>Includes:</b>	
<b>Methodology:</b>	FIA
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	48-72 hours
<b>Specimen Requirements:</b>	Heel-stick blood applied to filter paper
<b>Collection Kit/Container:</b>	Filter paper cards (Form #228) obtained through State Lab 502-564-4446 x 4716
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	<a href="http://chfs.ky.gov/NR/ronlyres/52B8F723-8456-4DA6-9692-6CF8F7A1EBEF/0/newbornscreening2013.pdf">http://chfs.ky.gov/NR/ronlyres/52B8F723-8456-4DA6-9692-6CF8F7A1EBEF/0/newbornscreening2013.pdf</a>
<b>Specimen Handling and Transport:</b>	Mail in envelope. Do not fold. Do not place in plastic bag. For additional instructions, see back of filter paper card.
<b>Unacceptable Conditions:</b>	Specimens with layered blood spots, clotted, separated, or inadequate blood
<b>Reference Range:</b>	<20 µU/mL
<b>CPT Code:</b>	HCPCS Code: S3620
<b>Additional Comments:</b>	Testing is for infants < 6 months of age Sub-optimal if received >14 days from collection

## COXSACKIE VIRUS

<b>DLS Department:</b>	Virology	502-564-4446 x 4484
<b>OUTREACH Test Code:</b>	VIS	
<b>Includes:</b>	See Enterovirus	
<b>Methodology:</b>		
<b>Availability:</b>		
<b>Turn-around-Time:</b>		
<b>Specimen Requirements:</b>		
<b>Collection Kit/Container:</b>		
<b>Patient Preparation:</b>		
<b>Collection and Packaging Instructions:</b>		
<b>Specimen Handling and Transport:</b>		
<b>Unacceptable Conditions:</b>		
<b>Reference Range:</b>		
<b>CPT Code:</b>		
<b>Additional Comments:</b>		

## CYSTIC FIBROSIS

<b>DLS Department:</b>	Newborn Screening 502-564-4446 x 4716
<b>OUTREACH Test Code:</b>	Order through KY Child
<b>Includes:</b>	
<b>Methodology:</b>	FIA
<b>Availability:</b>	M-Sat
<b>Turn-around-Time:</b>	48-72 hours
<b>Specimen Requirements:</b>	Heel-stick blood applied to filter paper
<b>Collection Kit/Container:</b>	Filter paper cards (Form #228) obtained through State Lab 502-564-4446 x 4716
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	<a href="http://chfs.ky.gov/NR/rdonlyres/52B8F723-8456-4DA6-9692-6CF8F7A1EBEF/0/newbornscreening2013.pdf">http://chfs.ky.gov/NR/rdonlyres/52B8F723-8456-4DA6-9692-6CF8F7A1EBEF/0/newbornscreening2013.pdf</a>
<b>Specimen Handling and Transport:</b>	Mail in envelope. Do not fold. Do not place in plastic bag. For additional instructions, see back of filter paper card.
<b>Unacceptable Conditions:</b>	Specimens with layered blood spots, clotted, separated, or inadequate blood
<b>Reference Range:</b>	<58.0 ng/mL
<b>CPT Code:</b>	HCPCS Code: S3620
<b>Additional Comments:</b>	Testing is for infants < 6 months of age Sub-optimal if received >14 days from collection

## DIPHTHERIA

<b>DLS Department:</b>	Bacteriology      502-564-4446 x 4459
<b>OUTREACH Test Code:</b>	MC
<b>Includes:</b>	Identification of <i>Corynebacterium diphtheriae</i>
<b>Methodology:</b>	Culture, Molecular
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	3-7 days
<b>Specimen Requirements:</b>	Culture isolate Swabs from nose, throat, or wounds
<b>Collection Kit/Container:</b>	Submitter packaging
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	Culture: Prefer Loeffler's or PAI slant. May use Trypticase soy or heart infusion agar slant. Swabs: Placed in Amies or Stuart transport media and shipped overnight, preferably on cold packs
<b>Specimen Handling and Transport:</b>	Mail immediately after collection.
<b>Unacceptable Conditions:</b>	
<b>Reference Range:</b>	NA
<b>CPT Code:</b>	87070
<b>Additional Comments:</b>	



## ECHOVIRUS

<b>DLS Department:</b>	Virology	502-564-4446 x 44
<b>OUTREACH Test Code:</b>	VIS	
<b>Includes:</b>	See Enterovirus	
<b>Methodology:</b>		
<b>Availability:</b>		
<b>Turn-around-Time:</b>		
<b>Specimen Requirements:</b>		
<b>Collection Kit/Container:</b>		
<b>Patient Preparation:</b>		
<b>Collection and Packaging Instructions:</b>		
<b>Specimen Handling and Transport:</b>		
<b>Unacceptable Conditions:</b>		
<b>Reference Range:</b>		
<b>CPT Code:</b>		
<b>Additional Comments:</b>		

## ENTEROVIRUS

<b>DLS Department:</b>	Virology                      502-564-4446 x 4450
<b>OUTREACH Test Code:</b>	VIS
<b>Includes:</b>	Coxsackie, ECHO, Polio
<b>Methodology:</b>	Isolation
<b>Availability:</b>	As needed
<b>Turn-around-Time:</b>	3-14 days
<b>Specimen Requirements:</b>	Throat wash, throat swab, NP swab
<b>Collection Kit/Container:</b>	M4RT viral media/Multishipper with cold pack
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	<a href="http://chfs.ky.gov/NR/rdonlyres/30B0DD88-C121-461A-8ACC-94D5EC9263AD/0/Multishipperwithcoldpack.pdf">http://chfs.ky.gov/NR/rdonlyres/30B0DD88-C121-461A-8ACC-94D5EC9263AD/0/Multishipperwithcoldpack.pdf</a>
<b>Specimen Handling and Transport:</b>	Ship with cold pack; Freeze specimen if not shipped within 48hrs
<b>Unacceptable Conditions:</b>	
<b>Reference Range:</b>	No Enterovirus Isolated
<b>CPT Code:</b>	87253
<b>Additional Comments:</b>	

## ESCHERICHIA COLI

<b>DLS Department:</b>	Bacteriology 502-564-4446 x 4459 Environmental Microbiology 502-564-4446 x 4491
<b>OUTREACH Test Code:</b>	ECO
<b>Includes:</b>	Shiga-toxin producing E.coli non O157
<b>Methodology:</b>	Isolation/Identification and Antigenic typing/ Food Culture
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	Clinical 4-5 days/ Food 48 hrs-15 days
<b>Specimen Requirements:</b>	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
<b>Collection Kit/Container:</b>	Clinical- Enteric pathogens kit with Cary Blair or Amies transport media Isolate – Pure fresh growth on agar slant Food- Food Kit
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	Clinical - <a href="http://chfs.ky.gov/NR/rdonlyres/73A1085E-AD36-44C5-8EF8-EDED9E062BB9/0/entericscaryblair2013.pdf">http://chfs.ky.gov/NR/rdonlyres/73A1085E-AD36-44C5-8EF8-EDED9E062BB9/0/entericscaryblair2013.pdf</a> Food: <a href="http://chfs.ky.gov/NR/rdonlyres/60E2687E-19FA-4DC9-8B33-AC798D70167A/0/RevisedFoodSampleCollection.pdf">http://chfs.ky.gov/NR/rdonlyres/60E2687E-19FA-4DC9-8B33-AC798D70167A/0/RevisedFoodSampleCollection.pdf</a>
<b>Specimen Handling and Transport:</b>	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.
<b>Unacceptable Conditions:</b>	Stools 7 days or older
<b>Reference Range:</b>	NA
<b>CPT Code:</b>	Stool 87045 PCR 87150
<b>Additional Comments:</b>	Collect during acute stage (Days 1-3) of diarrheal disease and before initiation of anti-microbial or drug therapy.

## KY Division of Laboratory Services

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### FLUORIDE

<b>DLS Department:</b>	Environmental	502-564-4446 x 4425/4670
<b>OUTREACH Test Code:</b>	FL – Fluoride FLP - Fluoride (Public Water System) FLS - Fluoride (Supplement Program)	
<b>Includes:</b>		
<b>Methodology:</b>	FIA by Lachet Quickchem	
<b>Availability:</b>	M-F	
<b>Turn-around-Time:</b>	5 days	
<b>Specimen Requirements:</b>	10 ml of drinking water	
<b>Collection Kit/Container:</b>	Call Julie McKee at 502-564-3246 x 4421	
<b>Patient Preparation:</b>	Not Applicable	
<b>Collection and Packaging Instructions:</b>		
<b>Specimen Handling and Transport:</b>		
<b>Unacceptable Conditions:</b>	Water >28 days from date of collection	
<b>Reference Range:</b>	0.8-1.4 PPM Kentucky's optimal fluoride concentration is: 0.90PPM.	
<b>CPT Code:</b>		
<b>Additional Comments:</b>	Drinking water for dental program.	



## FOOD CHEMISTRY

<b>DLS Department:</b>	Environmental Chemistry 502-564-4446 x 4425/4670
<b>OUTREACH Test Code:</b>	
<b>Includes:</b>	Pesticides, Mercury
<b>Methodology:</b>	Pesticides- GC MS Mercury- Mercury Analyzer
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	15 days
<b>Specimen Requirements:</b>	Pesticides- Vegetables screening only Mercury- Fish
<b>Collection Kit/Container:</b>	Contact the Division of Laboratory Services
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	
<b>Specimen Handling and Transport:</b>	Call laboratory; Ship immediately after collection. Perishable foods shipped with cold packs.
<b>Unacceptable Conditions:</b>	
<b>Reference Range:</b>	
<b>CPT Code:</b>	
<b>Additional Comments:</b>	



## FRANCISELLA TULARENSIS

<b>DLS Department:</b>	Preparedness	502-564-4446 x 4460
<b>OUTREACH Test Code:</b>	MC	
<b>Includes:</b>	See Tularemia	
<b>Methodology:</b>		
<b>Availability:</b>		
<b>Turn-around-Time:</b>		
<b>Specimen Requirements:</b>		
<b>Collection Kit/Container:</b>		
<b>Patient Preparation:</b>		
<b>Collection and Packaging Instructions:</b>		
<b>Specimen Handling and Transport:</b>		
<b>Unacceptable Conditions:</b>		
<b>Reference Range:</b>		
<b>CPT Code:</b>		
<b>Additional Comments:</b>		

## GALACTOSEMIA

<b>DLS Department:</b>	Newborn Screening 502-564-4446 x 4716
<b>OUTREACH Test Code:</b>	Order through KY Child
<b>Includes:</b>	
<b>Methodology:</b>	Beutler-Baluda (adaptation)
<b>Availability:</b>	M-Sat
<b>Turn-around-Time:</b>	48-72 hours
<b>Specimen Requirements:</b>	Heel-stick blood applied to filter paper (Ensure no preservative or heparin contamination)
<b>Collection Kit/Container:</b>	Filter paper cards (Form #228) obtained through State Lab 502-564-4446 x 4433
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	<a href="http://chfs.ky.gov/NR/rdonlyres/52B8F723-8456-4DA6-9692-6CF8F7A1EBEF/0/newbornscreening2013.pdf">http://chfs.ky.gov/NR/rdonlyres/52B8F723-8456-4DA6-9692-6CF8F7A1EBEF/0/newbornscreening2013.pdf</a>
<b>Specimen Handling and Transport:</b>	Mail in envelope. Do not fold. Do not place in plastic bag. For additional instructions, see back of filter paper card.
<b>Unacceptable Conditions:</b>	Specimens with layered blood spots, clotted, separated, or inadequate blood
<b>Reference Range:</b>	>2.5U/dL
<b>CPT Code:</b>	HCPCS Code: S3620
<b>Additional Comments:</b>	Testing is for infants < 6 months of age Sub-optimal if received >14 days from collection

## GLANDERS DISEASE

<b>DLS Department:</b>	Bacteriology	502-564-4446 x 4459
<b>OUTREACH Test Code:</b>	MC	
<b>Includes:</b>	See Burkholderia mallei	
<b>Methodology:</b>		
<b>Availability:</b>		
<b>Turn-around-Time:</b>		
<b>Specimen Requirements:</b>		
<b>Collection Kit/Container:</b>		
<b>Patient Preparation:</b>		
<b>Collection and Packaging Instructions:</b>		
<b>Specimen Handling and Transport:</b>		
<b>Unacceptable Conditions:</b>		
<b>Reference Range:</b>		
<b>CPT Code:</b>		
<b>Additional Comments:</b>		



## HAEMOPHILUS

<b>DLS Department:</b>	Bacteriology	502-564-4446 x 4459
<b>OUTREACH Test Code:</b>	MC	
<b>Includes:</b>	Only for invasive Haemophilus and Special Requests	
<b>Methodology:</b>	Identification	
<b>Availability:</b>	M-F	
<b>Turn-around-Time:</b>	Send Out	
<b>Specimen Requirements:</b>	Pure fresh isolate on chocolate agar slant or other tubed solid media which organism grows best.	
<b>Collection Kit/Container:</b>	Submitter packaging	
<b>Patient Preparation:</b>		
<b>Collection and Packaging Instructions:</b>		
<b>Specimen Handling and Transport:</b>	Provide fresh growth slant; immediately mail at room temperature to be received within 24 hours. Avoid extreme temperatures	
<b>Unacceptable Conditions:</b>		
<b>Reference Range:</b>	NA	
<b>CPT Code:</b>	87077	
<b>Additional Comments:</b>	Specimen sent to CDC or Reference lab for serotyping	

## HEMOGLOBINOPATHIES

<b>DLS Department:</b>	Newborn Screening 502-564-4446 x 4716
<b>OUTREACH Test Code:</b>	Order through KY Child
<b>Includes:</b>	Sickle Cell Anemia; HbS/Beta Thalassemia (Hbs/Th); HbS/C Disease
<b>Methodology:</b>	HPLC
<b>Availability:</b>	M-Sat
<b>Turn-around-Time:</b>	48-72 hours
<b>Specimen Requirements:</b>	Heel-stick blood applied to filter paper (No preservative)
<b>Collection Kit/Container:</b>	Filter paper cards (Form #228) obtained through State Lab 502-564-4446 x 4716
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	<a href="http://chfs.ky.gov/NR/ronlyres/52B8F723-8456-4DA6-9692-6CF8F7A1EBEF/0/newbornscreening2013.pdf">http://chfs.ky.gov/NR/ronlyres/52B8F723-8456-4DA6-9692-6CF8F7A1EBEF/0/newbornscreening2013.pdf</a>
<b>Specimen Handling and Transport:</b>	Mail in envelope. Do not fold. Do not place in plastic bag. For additional instructions, see back of filter paper card.
<b>Unacceptable Conditions:</b>	Specimens with layered blood spots, clotted, separated, or inadequate blood
<b>Reference Range:</b>	F + A
<b>CPT Code:</b>	HCPCS Code: S3620
<b>Additional Comments:</b>	Testing is for infants < 6 months of age Sub-optimal if received >14 days from collection

## HEPATITIS A

<b>DLS Department:</b>	Virology                      502-564-4446 x 4483
<b>OUTREACH Test Code:</b>	HAV
<b>Includes:</b>	
<b>Methodology:</b>	EIA
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	48 hours
<b>Specimen Requirements:</b>	Serum or whole blood in 7 ml red stoppered tube
<b>Collection Kit/Container:</b>	
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	Blood - <a href="http://chfs.ky.gov/NR/rdonlyres/B2DC7607-7525-4749-A34F-CDD906D2C37C/0/Multishipper.pdf">http://chfs.ky.gov/NR/rdonlyres/B2DC7607-7525-4749-A34F-CDD906D2C37C/0/Multishipper.pdf</a> Serum - <a href="http://chfs.ky.gov/NR/rdonlyres/30B0DD88-C121-461A-8ACC-94D5EC9263AD/0/Multishipperwithcoldpack.pdf">http://chfs.ky.gov/NR/rdonlyres/30B0DD88-C121-461A-8ACC-94D5EC9263AD/0/Multishipperwithcoldpack.pdf</a>
<b>Specimen Handling and Transport:</b>	Normal blood collection. Specimen should be stored at 2-8°C prior to shipping. Ship ASAP. If sending serum, ship on cold pack
<b>Unacceptable Conditions:</b>	
<b>Reference Range:</b>	Non-reactive
<b>CPT Code:</b>	86708
<b>Additional Comments:</b>	Available only through Epidemiology.

## HEPATITIS B

<b>DLS Department:</b>	Virology                      502-564-4446 x 4483
<b>OUTREACH Test Code:</b>	Hepatitis B surface antigen- HBSG Hepatitis B surface antibody-HBSB Hepatitis B core antibody- HBCB
<b>Includes:</b>	
<b>Methodology:</b>	EIA
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	48 hours- 7 days
<b>Specimen Requirements:</b>	Serum or whole blood in 7 ml red stoppered tube
<b>Collection Kit/Container:</b>	
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	Blood - <a href="http://chfs.ky.gov/NR/rdonlyres/B2DC7607-7525-4749-A34F-CDD906D2C37C/0/Multishipper.pdf">http://chfs.ky.gov/NR/rdonlyres/B2DC7607-7525-4749-A34F-CDD906D2C37C/0/Multishipper.pdf</a> Serum - <a href="http://chfs.ky.gov/NR/rdonlyres/30B0DD88-C121-461A-8ACC-94D5EC9263AD/0/Multishipperwithcoldpack.pdf">http://chfs.ky.gov/NR/rdonlyres/30B0DD88-C121-461A-8ACC-94D5EC9263AD/0/Multishipperwithcoldpack.pdf</a>
<b>Specimen Handling and Transport:</b>	Normal blood collection. Specimen should be stored at 2-8°C prior to shipping. Ship ASAP. If sending serum, ship on cold pack.
<b>Unacceptable Conditions:</b>	
<b>Reference Range:</b>	Non-reactive
<b>CPT Code:</b>	HbsAG     87340 Anti-HBs 86706 Anti- HBc 86704
<b>Additional Comments:</b>	Available only through local health departments and prenatal clinics

## HEPATITIS C

<b>DLS Department:</b>	Virology                      502-564-4446 x 4483
<b>OUTREACH Test Code:</b>	HEPC
<b>Includes:</b>	
<b>Methodology:</b>	EIA
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	5 days
<b>Specimen Requirements:</b>	Plasma collected in Plasma Preparation Tube (PPT) K2E. Spin specimen in centrifuge within 6 hours of collection
<b>Collection Kit/Container:</b>	
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	<a href="http://chfs.ky.gov/NR/ronlyres/30B0DD88-C121-461A-8ACC-94D5EC9263AD/0/Multishipperwithcoldpack.pdf">http://chfs.ky.gov/NR/ronlyres/30B0DD88-C121-461A-8ACC-94D5EC9263AD/0/Multishipperwithcoldpack.pdf</a>
<b>Specimen Handling and Transport:</b>	Normal blood collection. Specimen should be stored at 2-8°C prior to shipping. Ship ASAP. Send out for confirmation testing requires plasma.
<b>Unacceptable Conditions:</b>	Although, patient will have to be contacted and specimen recollected into PPT tube for any confirmation testing if sample not originally sent in PPT tube.
<b>Reference Range:</b>	Non-reactive
<b>CPT Code:</b>	86803 – Antibody 87522 - Quantification
<b>Additional Comments:</b>	Specimens collected in PPT tube can be refrigerated for 3 days before testing or can be frozen up to 6 weeks
<b>Additional Tests Performed:</b>	Hep C confirmation testing sent to reference lab.

## HERPES SIMPLEX

<b>DLS Department:</b>	Virology                      502-564-4446 x 4450
<b>OUTREACH Test Code:</b>	HSV
<b>Includes:</b>	
<b>Methodology:</b>	Isolation
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	24 hours- 7 days
<b>Specimen Requirements:</b>	Isolation-Throat wash swab, lesion swab
<b>Collection Kit/Container:</b>	Isolation- M4RT viral media/Multishipper with cold pack
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	Isolation - <a href="http://chfs.ky.gov/NR/rdonlyres/30B0DD88-C121-461A-8ACC-94D5EC9263AD/0/Multishipperwithcoldpack.pdf">http://chfs.ky.gov/NR/rdonlyres/30B0DD88-C121-461A-8ACC-94D5EC9263AD/0/Multishipperwithcoldpack.pdf</a> EIA - <a href="http://chfs.ky.gov/NR/rdonlyres/B2DC7607-7525-4749-A34F-CDD906D2C37C/0/Multishipper.pdf">http://chfs.ky.gov/NR/rdonlyres/B2DC7607-7525-4749-A34F-CDD906D2C37C/0/Multishipper.pdf</a>
<b>Specimen Handling and Transport:</b>	Isolation-Ship with cold pack; Freeze specimen if not shipped within 48hrs.
<b>Unacceptable Conditions:</b>	Expired M4RT
<b>Reference Range:</b>	No Herpes Virus Isolated
<b>CPT Code:</b>	Isolation- 87253
<b>Additional Comments:</b>	

## HIV

<b>DLS Department:</b>	Virology                      502-564-4446 x 4483
<b>OUTREACH Test Code:</b>	HIV
<b>Includes:</b>	HIV Combo Ag/Ab 4 <sup>th</sup> generation, Multispot HIV1/HIV2
<b>Methodology:</b>	EIA,
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	24 hours- 5 days
<b>Specimen Requirements:</b>	Serum, plasma (potassium EDTA, sodium and lithium heparin, sodium citrate) or whole blood in 7 ml red stoppered tube
<b>Collection Kit/Container:</b>	Call STD program for site specific KY numbers.
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	<a href="http://chfs.ky.gov/NR/rdonlyres/7215B53D-A920-41E3-A12E-FFC2E2BEE295/0/hivcollection2013.pdf">http://chfs.ky.gov/NR/rdonlyres/7215B53D-A920-41E3-A12E-FFC2E2BEE295/0/hivcollection2013.pdf</a>
<b>Specimen Handling and Transport:</b>	Normal blood collection. Specimen should be stored at 2-8°C prior to shipping. Ship ASAP. If sending serum, send on cold pack.
<b>Unacceptable Conditions:</b>	
<b>Reference Range:</b>	Non-Reactive
<b>CPT Code:</b>	HIV Combo- 87389 Multispot- 86701 & 86702
<b>Additional Comments:</b>	If HIV Ag/Ab assay is repeatedly reactive, HIV1/2 Ab differentiation (multispot) is performed. Available only through counseling & testing sites or sexually transmitted disease clinics. KY numbered stickers available ONLY through the STD program.

## HYPOTHYROID

<b>DLS Department:</b>	Newborn Screening	502-564-4446 x 4716
<b>OUTREACH Test Code:</b>		
<b>Includes:</b>	See Congenital Hypothyroidism	
<b>Methodology:</b>		
<b>Availability:</b>		
<b>Turn-around-Time:</b>		
<b>Specimen Requirements:</b>		
<b>Collection Kit/Container:</b>		
<b>Patient Preparation:</b>		
<b>Collection and Packaging Instructions:</b>		
<b>Specimen Handling and Transport:</b>		
<b>Unacceptable Conditions:</b>		
<b>Reference Range:</b>		
<b>CPT Code:</b>		
<b>Additional Comments:</b>		



## INFLUENZA

<b>DLS Department:</b>	Virology	502-564-4446 x 44
<b>OUTREACH Test Code:</b>	FPCR	
<b>Includes:</b>		
<b>Methodology:</b>	PCR	
<b>Availability:</b>	M-F	
<b>Turn-around-Time:</b>	24-48 hours	
<b>Specimen Requirements:</b>	Nasopharyngeal swab, nasal aspirate or wash or a combined nasopharyngeal swab with oropharyngeal swab. If these specimens cannot be collected, a nasal swab or oropharyngeal swab is acceptable. Post-mortem tissue	
<b>Collection Kit/Container:</b>	M4RT and multishipper with cold pack	
<b>Patient Preparation:</b>		
<b>Collection and Packaging Instructions:</b>	<a href="http://chfs.ky.gov/NR/ronlyres/30B0DD88-C121-461A-8ACC-94D5EC9263AD/0/Multishipperwithcoldpack">http://chfs.ky.gov/NR/ronlyres/30B0DD88-C121-461A-8ACC-94D5EC9263AD/0/Multishipperwithcoldpack</a> .	
<b>Specimen Handling and Transport:</b>	Ship ASAP on cold packs. Freeze specimen if testing is delayed. If sending lung tissue, send in a sterile container. NO FORMALIN or FIXATIVE.	
<b>Unacceptable Conditions:</b>	Expired M4RT media. Formalin or fixative used on tissue samples.	
<b>Reference Range:</b>	Negative Influenza A/B by PCR	
<b>CPT Code:</b>	83891,83908,83912	
<b>Additional Comments:</b>	For patients who are intubated, an endotracheal aspirate should also be collected. Bronchoalveolar lavage (BAL) and sputum specimens are also acceptable.	

## INTESTINAL PROTOZOA

<b>DLS Department:</b>	Bacteriology 502-564-4446 x 4459
<b>OUTREACH Test Code:</b>	IPDR
<b>Includes:</b>	Suspect Nematodes, cressode, trematode, or other parasites
<b>Methodology:</b>	Microscopic and Macroscopic examination and Conventional ID techniques
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	Send out
<b>Specimen Requirements:</b>	Feces submitted in preservative or passed worm. For feces, submit at least 3 specimens collected on alternate days.
<b>Collection Kit/Container:</b>	Intestinal parasites kit – 10 % formalin and PVA Specimens submitted in alternative preservatives provided by the submitting facility (Ecofix, Prot-fix, Total fix, etc.) are acceptable for some testing. Worm – Sterile jar with 70% ethyl alcohol
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	<a href="http://chfs.ky.gov/NR/rdonlyres/5CFB01A0-36DC-43E1-A3BD-8B3F84A61C10/0/parasites2013.pdf">http://chfs.ky.gov/NR/rdonlyres/5CFB01A0-36DC-43E1-A3BD-8B3F84A61C10/0/parasites2013.pdf</a>
<b>Specimen Handling and Transport:</b>	Mail immediately after collection at room temperature. Specimen to be received within 24 hours
<b>Unacceptable Conditions:</b>	
<b>Reference Range:</b>	No parasites seen
<b>CPT Code:</b>	87169
<b>Additional Comments:</b>	Call DLS before submitting.



## LEAD- ENVIRONMENTAL

<b>DLS Department:</b>	Environmental Chemistry 502-564-4446 x 4670
<b>OUTREACH Test Code:</b>	
<b>Includes:</b>	
<b>Methodology:</b>	ICP
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	15 days
<b>Specimen Requirements:</b>	Dust wipes, soil, paint chips
<b>Collection Kit/Container:</b>	
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	
<b>Specimen Handling and Transport:</b>	
<b>Unacceptable Conditions:</b>	
<b>Reference Range:</b>	
<b>CPT Code:</b>	
<b>Additional Comments:</b>	



## LISTERIA MONOCYTOGENES

<b>DLS Department:</b>	Bacteriology (clinical) 502-564-4446 x 4459 Environmental Microbiology (Food) 502-564-4446 x 4462
<b>OUTREACH Test Code:</b>	MC (clinical)
<b>Includes:</b>	Environmental Microbiology identifies Listeria species
<b>Methodology:</b>	Identification/Culture/Molecular
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	4-6 days
<b>Specimen Requirements:</b>	Clinical- Pure culture TSA or blood agar slant Environmental- Food
<b>Collection Kit/Container:</b>	
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	Submitter packaging for clinical isolates Food: <a href="http://chfs.ky.gov/NR/rdonlyres/60E2687E-19FA-4DC9-8B33-AC798D70167A/0/RevisedFoodSampleCollection.pdf">http://chfs.ky.gov/NR/rdonlyres/60E2687E-19FA-4DC9-8B33-AC798D70167A/0/RevisedFoodSampleCollection.pdf</a>
<b>Specimen Handling and Transport:</b>	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. <b>Call laboratory before sending specimens.</b>
<b>Unacceptable Conditions:</b>	
<b>Reference Range:</b>	NA
<b>CPT Code:</b>	Clinical- 87077
<b>Additional Comments:</b>	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.

## MALARIA

<b>DLS Department:</b>	Bacteriology      502-564-4446 x 4459
<b>OUTREACH Test Code:</b>	IPDR
<b>Includes:</b>	
<b>Methodology:</b>	Microscopic Exam/ PCR
<b>Availability:</b>	M-Th
<b>Turn-around-Time:</b>	Send out
<b>Specimen Requirements:</b>	Thick and thin blood smears and 1mL whole blood
<b>Collection Kit/Container:</b>	EDTA blood tube
<b>Patient Preparation:</b>	Collect blood prior to anti-parasitic therapy.
<b>Collection and Packaging Instructions:</b>	Store at 4°C for malaria molecular ID.
<b>Specimen Handling and Transport:</b>	Ship on cold packs.
<b>Unacceptable Conditions:</b>	EDTA blood >48hrs
<b>Reference Range:</b>	No organisms identified
<b>CPT Code:</b>	87207
<b>Additional Comments:</b>	Specimen sent to reference lab. Call DLS for additional instructions.

## MEASLES

<b>DLS Department:</b>	Virology	502-564-4446 x 4484
<b>OUTREACH Test Code:</b>	MEAE - Measles IgG (EIA) MEME - Measles IgM (EIA)	
<b>Includes:</b>	See Rubella	
<b>Methodology:</b>		
<b>Availability:</b>		
<b>Turn-around-Time:</b>		
<b>Specimen Requirements:</b>		
<b>Collection Kit/Container:</b>		
<b>Patient Preparation:</b>		
<b>Collection and Packaging Instructions:</b>		
<b>Specimen Handling and Transport:</b>		
<b>Unacceptable Conditions:</b>		
<b>Reference Range:</b>		
<b>CPT Code:</b>		
<b>Additional Comments:</b>		

## MILK AND DAIRY PRODUCTS

<b>DLS Department:</b>	Milk and Water Lab	502-564-4446 x 4491
<b>OUTREACH Test Code:</b>		
<b>Includes:</b>	Refer to Manual for Environmentalists and Milk Inspectors	
<b>Methodology:</b>		
<b>Availability:</b>	Sample testing scheduled through the milk and water lab	
<b>Turn-around-Time:</b>	7 days	
<b>Specimen Requirements:</b>		
<b>Collection Kit/Container:</b>		
<b>Patient Preparation:</b>		
<b>Collection and Packaging Instructions:</b>		
<b>Specimen Handling and Transport:</b>		
<b>Unacceptable Conditions:</b>		
<b>Reference Range:</b>		
<b>CPT Code:</b>		
<b>Additional Comments:</b>		



## MISCELLANEOUS BACTERIOLOGY

<b>DLS Department:</b>	Bacteriology	502-564-4446 x 4459
<b>OUTREACH Test Code:</b>	MC	
<b>Includes:</b>	Confirmation or Identification of clinically significant or pathogenic organisms.	
<b>Methodology:</b>	Identification Culture Molecular PCR and Biochemicals	
<b>Availability:</b>	M-F	
<b>Turn-around-Time:</b>	48 hours- 10 days	
<b>Specimen Requirements:</b>	Pure isolate of culture on tubed solid media on which the organism grows best	
<b>Collection Kit/Container:</b>	Submitter packaging	
<b>Patient Preparation:</b>		
<b>Collection and Packaging Instructions:</b>		
<b>Specimen Handling and Transport:</b>	Provide fresh growth slant; immediately mail at room temperature to be received within 24 hours. Avoid extreme temperatures	
<b>Unacceptable Conditions:</b>		
<b>Reference Range:</b>	NA	
<b>CPT Code:</b>		
<b>Additional Comments:</b>		



## MUMPS

<b>DLS Department:</b>	Virology 502-564-4446 x 4484
<b>OUTREACH Test Code:</b>	Serology EIA- MUEG (IgG) MUMM(IgM) PCR - VIS
<b>Includes:</b>	
<b>Methodology:</b>	EIA/PCR
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	2-4 days
<b>Specimen Requirements:</b>	Serology- Serum or whole blood in 7 ml red stoppered tube PCR – Buccal swab or Throat Swab collected in viral transport media
<b>Collection Kit/Container:</b>	
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	<a href="http://chfs.ky.gov/NR/ronlyres/30B0DD88-C121-461A-8ACC-94D5EC9263AD/0/Multishipperwithcoldpack.pdf">http://chfs.ky.gov/NR/ronlyres/30B0DD88-C121-461A-8ACC-94D5EC9263AD/0/Multishipperwithcoldpack.pdf</a>
<b>Specimen Handling and Transport:</b>	Specimen should be stored at 2-8°C prior to shipping. Ship ASAP on cold pack. Ship VTM frozen if delayed shipping.
<b>Unacceptable Conditions:</b>	Expired M4RT media
<b>Reference Range:</b>	Mumps IgG antibody detected. Indicative of current or past infection, or consistent with immunity. Reference range $\geq 1.1$ Index. IgM - Detected/Not Detected, PCR – Not Detected
<b>CPT Code:</b>	Serology 86735
<b>Additional Comments:</b>	

## MYCOBACTERIA

<b>DLS Department:</b>	Mycobacteriology	502-564-4446 x 4422
<b>OUTREACH Test Code:</b>		
<b>Includes:</b>	See Tuberculosis	
<b>Methodology:</b>		
<b>Availability:</b>		
<b>Turn-around-Time:</b>		
<b>Specimen Requirements:</b>		
<b>Collection Kit/Container:</b>		
<b>Patient Preparation:</b>		
<b>Collection and Packaging Instructions:</b>		
<b>Specimen Handling and Transport:</b>		
<b>Unacceptable Conditions:</b>		
<b>Reference Range:</b>		
<b>CPT Code:</b>		
<b>Additional Comments:</b>		

## NEISSERIA CULTURE

<b>DLS Department:</b>	Bacteriology	502-564-4446 x 4459
<b>OUTREACH Test Code:</b>	NEIS	
<b>Includes:</b>	N. gonorrhoea and other Neisseria species including N. meningitidis	
<b>Methodology:</b>	Identification and serotyping	
<b>Availability:</b>	M-F	
<b>Turn-around-Time:</b>	24 hours- 5 days	
<b>Specimen Requirements:</b>	Pure culture isolate- Martin Lewis or chocolate slant. Specimen must be received within 72 hrs of initial culturing or subculturing. Incubate subcultures 24 hours before shipping.	
<b>Collection Kit/Container:</b>	Submitter packaging	
<b>Patient Preparation:</b>		
<b>Collection and Packaging Instructions:</b>		
<b>Specimen Handling and Transport:</b>	Provide fresh growth slant; immediately mail at room temperature to be received within 24 hours. Avoid extreme temperatures	
<b>Unacceptable Conditions:</b>		
<b>Reference Range:</b>		
<b>CPT Code:</b>	87590	
<b>Additional Comments:</b>	Please notify the DLS bacteriology lab when sending cultures.	

## NEISSERIA GONORRHOEA

<b>DLS Department:</b>	Virology                      502-564-4446 x 4485
<b>OUTREACH Test Code:</b>	CTGC
<b>Includes:</b>	
<b>Methodology:</b>	Amplified Nucleic Acid Probe
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	24-48 hours
<b>Specimen Requirements:</b>	Endocervical swab, Vaginal swab, Male Urethral swab, Rectal swab, Pharyngeal Swab and Urine
<b>Collection Kit/Container:</b>	Endocervical, Male Urethral, Rectal and Pharyngeal Swabs use Aptima Unisex Kit. Vaginal use Aptima Vaginal Swab Kit Urine use Aptima Urine Kit
<b>Patient Preparation:</b>	Urine and Male Urethral Specimens – Patient should not have urinated for at least 1 hour prior to specimen collection.
<b>Collection and Packaging Instructions:</b>	<a href="http://chfs.ky.gov/NR/ronlyres/B2DC7607-7525-4749-A34F-CDD906D2C37C/0/Multishipper.pdf">http://chfs.ky.gov/NR/ronlyres/B2DC7607-7525-4749-A34F-CDD906D2C37C/0/Multishipper.pdf</a>
<b>Specimen Handling and Transport:</b>	
<b>Unacceptable Conditions:</b>	Swabs collected > 60 days; Urine > 30 days
<b>Reference Range:</b>	Negative
<b>CPT Code:</b>	87591
<b>Additional Comments:</b>	Only available through Local Health Department prenatal, family planning clinics, and STD clinics.

## NEWBORN SCREENING

<b>DLS Department:</b>	Newborn Screening 502-564-4446 x 4716
<b>OUTREACH Test Code:</b>	Order through KY Child
<b>Includes:</b>	Acylcarnatines; Amino Acids; Biotinidase Deficiency; Congenital Adrenal Hyperplasia; Congenital Hypothyroidism; Cystic Fibrosis; Galactosemia; Selected Hemoglobinopathies, Seven combined Immunodeficiency Disorders
<b>Methodology:</b>	See individual diseases
<b>Availability:</b>	M-Sat
<b>Turn-around-Time:</b>	48-72 hours For Newborn Screens to be run outside of usual operating hours, contact KY Division of Laboratory Services.
<b>Specimen Requirements:</b>	Heel-stick blood applied to filter paper (Ensure no preservatives or Heparin contamination)
<b>Collection Kit/Container:</b>	Filter paper cards (Form #228) obtained through State Lab 502-564-4446 x 4716
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	<a href="http://chfs.ky.gov/NR/rdonlyres/52B8F723-8456-4DA6-9692-6CF8F7A1EBEF/0/newbornscreening2013.pdf">http://chfs.ky.gov/NR/rdonlyres/52B8F723-8456-4DA6-9692-6CF8F7A1EBEF/0/newbornscreening2013.pdf</a>
<b>Specimen Handling and Transport:</b>	Mail in envelope. Do not fold. Do not place in plastic bag. For additional instructions, see back of filter paper card.
<b>Unacceptable Conditions:</b>	Specimens with layered blood spots, clotted, separated, or inadequate blood
<b>Reference Range:</b>	See individual test areas
<b>CPT Code:</b>	HCPCS Code: S3620
<b>Additional Comments:</b>	Testing is for infants < 6 months of age Sub-optimal if received >14 days from collection

## NOROVIRUS

<b>DLS Department:</b>	Virology                      502-564-4446 x 4483
<b>OUTREACH Test Code:</b>	NORO
<b>Includes:</b>	
<b>Methodology:</b>	PCR
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	24-48 hours
<b>Specimen Requirements:</b>	Raw stool, Emesis
<b>Collection Kit/Container:</b>	Sterile container without preservative. Ship with cold pack.
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	<a href="http://chfs.ky.gov/NR/rdonlyres/OC2947A7-D115-4846-B133-B565DFDEBA57/0/Norovirus2013.pdf">http://chfs.ky.gov/NR/rdonlyres/OC2947A7-D115-4846-B133-B565DFDEBA57/0/Norovirus2013.pdf</a>
<b>Specimen Handling and Transport:</b>	Specimen should be collected in sterile screw top container within 72 hours of onset of symptoms and refrigerated prior to shipping. DO NOT FREEZE. Ship with cold pack ASAP
<b>Unacceptable Conditions:</b>	
<b>Reference Range:</b>	Negative for Norovirus PCR
<b>CPT Code:</b>	83891,87798
<b>Additional Comments:</b>	Call Epidemiology prior to sending specimens.

## ORTHOPOX VIRUS

<b>DLS Department:</b>	Preparedness      502-564-4446 x 4460
<b>OUTREACH Test Code:</b>	MVPCR
<b>Includes:</b>	Non-variola Orthopoxvirus DNA, including vaccinia, cowpox, monkeypox and ectromelia viruses. Does not detect variola virus.
<b>Methodology:</b>	PCR
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	
<b>Specimen Requirements:</b>	Call KY State Lab for submission guidelines
<b>Collection Kit/Container:</b>	Collection swabs must be polyester or Dacron with a plastic or aluminum shaft
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	
<b>Specimen Handling and Transport:</b>	
<b>Unacceptable Conditions:</b>	
<b>Reference Range:</b>	No Orthopoxvirus DNA detected by real time PCR
<b>CPT Code:</b>	87798
<b>Additional Comments:</b>	Call the Division of Epidemiology (888-9-REPORT) or KY State Lab for specific instructions. This assay does not differentiate vaccinia virus or monkeypox virus from other Orthopoxviruses detected by this assay

OSHA

<b>DLS Department:</b>	Environmental Chemistry 502-564-4446 x 4449
<b>OUTREACH Test Code:</b>	
<b>Includes:</b>	
<b>Methodology:</b>	Chemical and physical analysis; AA/ICP, GC Electrobalance
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	5-15 days
<b>Specimen Requirements:</b>	
<b>Collection Kit/Container:</b>	
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	
<b>Specimen Handling and Transport:</b>	
<b>Unacceptable Conditions:</b>	
<b>Reference Range:</b>	
<b>CPT Code:</b>	
<b>Additional Comments:</b>	





## PERICARDITIS

<b>DLS Department:</b>	Virology	502-564-4446 x 4483
<b>OUTREACH Test Code:</b>	VIF	
<b>Includes:</b>	See Enterovirus-Coxsackie	
<b>Methodology:</b>		
<b>Availability:</b>		
<b>Turn-around-Time:</b>		
<b>Specimen Requirements:</b>		
<b>Collection Kit/Container:</b>		
<b>Patient Preparation:</b>		
<b>Collection and Packaging Instructions:</b>		
<b>Specimen Handling and Transport:</b>		
<b>Unacceptable Conditions:</b>		
<b>Reference Range:</b>		
<b>CPT Code:</b>		
<b>Additional Comments:</b>		

## PERTUSSIS

<b>DLS Department:</b>	Virology	502-564-4446 x 4483
<b>OUTREACH Test Code:</b>	RESP	
<b>Includes:</b>	See Bordetella Pertussis	
<b>Methodology:</b>		
<b>Availability:</b>		
<b>Turn-around-Time:</b>		
<b>Specimen Requirements:</b>		
<b>Collection Kit/Container:</b>		
<b>Patient Preparation:</b>		
<b>Collection and Packaging Instructions:</b>		
<b>Specimen Handling and Transport:</b>		
<b>Unacceptable Conditions:</b>		
<b>Reference Range:</b>		
<b>CPT Code:</b>		
<b>Additional Comments:</b>		

## PFGE

<b>DLS Department:</b>	Bacteriology      502-564-4446 x 4461
<b>OUTREACH Test Code:</b>	NA
<b>Includes:</b>	
<b>Methodology:</b>	Pulsed Field Gel Electrophoresis
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	4 days for PulseNet enteric organisms
<b>Specimen Requirements:</b>	Call the Division of Epidemiology (888-9-REPORT) or the KY State Lab for specific instructions
<b>Collection Kit/Container:</b>	
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	
<b>Specimen Handling and Transport:</b>	
<b>Unacceptable Conditions:</b>	
<b>Reference Range:</b>	
<b>CPT Code:</b>	
<b>Additional Comments:</b>	

## PHENYLKETONURIA

<b>DLS Department:</b>	Newborn Screening 502-564-4446 x 4716
<b>OUTREACH Test Code:</b>	Order through KY Child
<b>Includes:</b>	(PKU) See Amino Acids
<b>Methodology:</b>	MS/MS
<b>Availability:</b>	M-Sat
<b>Turn-around-Time:</b>	48-72 hours
<b>Specimen Requirements:</b>	Heel-stick blood applied to filter paper (Ensure no preservative or Heparin contamination)
<b>Collection Kit/Container:</b>	Filter paper cards (Form #228) obtained through State Lab 502-564-4446 x 4716
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	<a href="http://chfs.ky.gov/NR/rdonlyres/52B8F723-8456-4DA6-9692-6CF8F7A1EBEF/0/newbornscreening2013.pdf">http://chfs.ky.gov/NR/rdonlyres/52B8F723-8456-4DA6-9692-6CF8F7A1EBEF/0/newbornscreening2013.pdf</a>
<b>Specimen Handling and Transport:</b>	Mail in envelope. Do not fold. Do not place in plastic bag. For additional instructions, see back of filter paper card.
<b>Unacceptable Conditions:</b>	Specimens with layered blood spots, clotted, separated, or inadequate blood
<b>Reference Range:</b>	Within Profile Range
<b>CPT Code:</b>	HCPCS Code: S3620
<b>Additional Comments:</b>	Testing is for infants < 6 months of age Sub-optimal if received > 14 days from collection

## PINWORM

<b>DLS Department:</b>	Bacteriology      502-564-4446 x 4459
<b>OUTREACH Test Code:</b>	PINE
<b>Includes:</b>	
<b>Methodology:</b>	Direct microscopic examination
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	Send out
<b>Specimen Requirements:</b>	Sample collected on 3 consecutive mornings right after the infected person wakes up and before he/she does any washing
<b>Collection Kit/Container:</b>	Swube tube (Pinworm paddle)
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	<a href="http://chfs.ky.gov/NR/rdonlyres/B9FCDE57-55FA-48E2-B8A6-DAA35A5A606B/0/pinworm2013.pdf">http://chfs.ky.gov/NR/rdonlyres/B9FCDE57-55FA-48E2-B8A6-DAA35A5A606B/0/pinworm2013.pdf</a>
<b>Specimen Handling and Transport:</b>	Room temperature
<b>Unacceptable Conditions:</b>	
<b>Reference Range:</b>	No pinworm eggs ( <i>Enterobius vermicularis</i> ) identified
<b>CPT Code:</b>	87172
<b>Additional Comments:</b>	Specimen sent to reference lab

## PRENATAL PROFILE

<b>DLS Department:</b>	Virology                      502-564-4446 x 4483
<b>OUTREACH Test Code:</b>	PNP
<b>Includes:</b>	Syphilis IgG, Hepatitis B antigen, Rubella IgG
<b>Methodology:</b>	EIA
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	48 hours- 8 days
<b>Specimen Requirements:</b>	Two 7 ml red stoppered tubes
<b>Collection Kit/Container:</b>	
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	Blood - <a href="http://chfs.ky.gov/NR/rdonlyres/B2DC7607-7525-4749-A34F-CDD906D2C37C/0/Multishipper.pdf">http://chfs.ky.gov/NR/rdonlyres/B2DC7607-7525-4749-A34F-CDD906D2C37C/0/Multishipper.pdf</a> Serum - <a href="http://chfs.ky.gov/NR/rdonlyres/30B0DD88-C121-461A-8ACC-94D5EC9263AD/0/Multishipperwithcoldpack.pdf">http://chfs.ky.gov/NR/rdonlyres/30B0DD88-C121-461A-8ACC-94D5EC9263AD/0/Multishipperwithcoldpack.pdf</a>
<b>Specimen Handling and Transport:</b>	If sending serum only, ship on cold pack
<b>Unacceptable Conditions:</b>	
<b>Reference Range:</b>	See individual tests
<b>CPT Code:</b>	Syphilis IgG    86780 HbsAg            87340 Rubella IgG    86762
<b>Additional Comments:</b>	Available through prenatal clinics or local health departments

## RABIES IN ANIMALS

<b>DLS Department:</b>	Virology                      502-564-4446 x 4487
<b>OUTREACH Test Code:</b>	RABP
<b>Includes:</b>	
<b>Methodology:</b>	Microscopic exam Isolation if human exposure case
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	48 hours
<b>Specimen Requirements:</b>	Animal head or brain tissue
<b>Collection Kit/Container:</b>	
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	<a href="http://chfs.ky.gov/NR/rdonlyres/E436EF02-E23B-4270-BA24-9B2F8B72DD14/0/rabies2013.pdf">http://chfs.ky.gov/NR/rdonlyres/E436EF02-E23B-4270-BA24-9B2F8B72DD14/0/rabies2013.pdf</a>
<b>Specimen Handling and Transport:</b>	Heads must be sent ASAP and packaged on cold packs. If shipping will be delayed, specimens should be frozen.
<b>Unacceptable Conditions:</b>	
<b>Reference Range:</b>	No evidence of Rabies seen
<b>CPT Code:</b>	
<b>Additional Comments:</b>	

## RESPIRATORY SYNCYTIAL VIRUS (RSV)

<b>DLS Department:</b>	Virology
<b>OUTREACH Test Code:</b>	RESP
<b>Includes:</b>	
<b>Methodology:</b>	Multi-Plex PCR
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	48 hrs
<b>Specimen Requirements:</b>	Respiratory Swab/ Throat Wash
<b>Collection Kit/Container:</b>	M4RT viral media/Multishipper with cold pack
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	<a href="http://chfs.ky.gov/NR/rdonlyres/30B0DD88-C121-461A-8ACC-94D5EC9263AD/0/Multishipperwithcoldpack.pdf">http://chfs.ky.gov/NR/rdonlyres/30B0DD88-C121-461A-8ACC-94D5EC9263AD/0/Multishipperwithcoldpack.pdf</a>
<b>Specimen Handling and Transport:</b>	Ship with cold pack- Refrigerate, Do Not Freeze
<b>Unacceptable Conditions:</b>	
<b>Reference Range:</b>	No Respiratory Virus Isolated
<b>CPT Code:</b>	87253
<b>Additional Comments:</b>	Rush delivery, virus not stable



## RICIN

<b>DLS Department:</b>	Preparedness      502-564-4446 x 4460
<b>OUTREACH Test Code:</b>	BTCTR
<b>Includes:</b>	
<b>Methodology:</b>	Time Resolved Fluorescence
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	24-48 hours
<b>Specimen Requirements:</b>	
<b>Collection Kit/Container:</b>	
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	Call the Division of Epidemiology (888-9-REPORT) for the KY State Lab for specific instructions before sending any samples.
<b>Specimen Handling and Transport:</b>	
<b>Unacceptable Conditions:</b>	
<b>Reference Range:</b>	TRF: No ricin toxin detected by Time Resolved Fluorescence
<b>CPT Code:</b>	
<b>Additional Comments:</b>	Must be field screened, collected packaged and submitted by the proper authorities.

## RUBELLA

<b>DLS Department:</b>	Virology                      502-564-4446 x 4484
<b>OUTREACH Test Code:</b>	Immune Status RUBG Diagnostic              RUBM
<b>Includes:</b>	Also referred to as German Measles
<b>Methodology:</b>	EIA
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	48-72 hours
<b>Specimen Requirements:</b>	Serum or whole blood collected in 7 ml red stoppered tube
<b>Collection Kit/Container:</b>	
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	Blood - <a href="http://chfs.ky.gov/NR/rdonlyres/B2DC7607-7525-4749-A34F-CDD906D2C37C/0/Multishipper.pdf">http://chfs.ky.gov/NR/rdonlyres/B2DC7607-7525-4749-A34F-CDD906D2C37C/0/Multishipper.pdf</a> Serum - <a href="http://chfs.ky.gov/NR/rdonlyres/30B0DD88-C121-461A-8ACC-94D5EC9263AD/0/Multishipperwithcoldpack.pdf">http://chfs.ky.gov/NR/rdonlyres/30B0DD88-C121-461A-8ACC-94D5EC9263AD/0/Multishipperwithcoldpack.pdf</a>
<b>Specimen Handling and Transport:</b>	Normal blood collection. Specimen should be stored at 2-8°C prior to shipping. Ship ASAP. If sending serum, send specimen on cold pack.
<b>Unacceptable Conditions:</b>	
<b>Reference Range:</b>	RUBG - Consistent with Immunity, Immunity Reference Range- ≥1.1 Index RUBM-IgM antibody Not Detected; IgM Antibody Not Detected Range <0.90 Index
<b>CPT Code:</b>	86762
<b>Additional Comments:</b>	Immune status – send single specimen. Diagnostic status requires acute and convalescent specimens. Diagnostic specimens need prior approval from the Division of Epidemiology.

## RUBEOLA

<b>DLS Department:</b>	Virology                      502-564-4446 x 4484
<b>OUTREACH Test Code:</b>	Immune Status MEAE Diagnostic              MEME    VIS (PCR)
<b>Includes:</b>	Also referred to as Measles
<b>Methodology:</b>	EIA, PCR
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	MEAE - 48-72 hours, MEME – Send Out, VIS – Send Out
<b>Specimen Requirements:</b>	Serum or whole blood collected in 7 ml red stoppered tube, Throat swab, NP swab, or NP aspirate collected in viral transport media.
<b>Collection Kit/Container:</b>	
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	Blood - <a href="http://chfs.ky.gov/NR/rdonlyres/B2DC7607-7525-4749-A34F-CDD906D2C37C/0/Multishipper.pdf">http://chfs.ky.gov/NR/rdonlyres/B2DC7607-7525-4749-A34F-CDD906D2C37C/0/Multishipper.pdf</a> Serum - <a href="http://chfs.ky.gov/NR/rdonlyres/30B0DD88-C121-461A-8ACC-94D5EC9263AD/0/Multishipperwithcoldpack.pdf">http://chfs.ky.gov/NR/rdonlyres/30B0DD88-C121-461A-8ACC-94D5EC9263AD/0/Multishipperwithcoldpack.pdf</a> Viral Transport - <a href="http://chfs.ky.gov/NR/rdonlyres/A6C1649B-E5C1-4B68-9433-86FF928DC850/0/virus2013.pdf">http://chfs.ky.gov/NR/rdonlyres/A6C1649B-E5C1-4B68-9433-86FF928DC850/0/virus2013.pdf</a>
<b>Specimen Handling and Transport:</b>	Normal blood collection. Specimen should be stored at 2-8°C prior to shipping. Ship ASAP. If sending serum or viral transport medium, send specimen on cold pack. Ship VTM frozen if delayed shipping.
<b>Unacceptable Conditions:</b>	
<b>Reference Range:</b>	Consistent with Immunity – Immunity Reference Range $\geq 20.0$ eu/mL , PCR – Not Detected
<b>CPT Code:</b>	86765
<b>Additional Comments:</b>	Immune status – send single specimen. Diagnostic status requires acute and convalescent specimens. Diagnostic specimens need prior approval from the Division of Epidemiology.

## SALMONELLA

<b>DLS Department:</b>	Bacteriology/ Environmental Microbiology 502-564-4446 x 4459
<b>OUTREACH Test Code:</b>	Stools- SGT Culture isolate- SGT
<b>Includes:</b>	All Sero-Types
<b>Methodology:</b>	Isolation Identification Antigenic Testing
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	Clinical-8-10 days Food- 5-15 days
<b>Specimen Requirements:</b>	Isolation- Stool Identification and Antigenic Typing- Pure culture isolate. Agar slant: Heart infusion, trypticase soy, blood or chocolate agar
<b>Collection Kit/Container:</b>	Stools - Cary Blair
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	Clinical - <a href="http://chfs.ky.gov/NR/rdonlyres/73A1085E-AD36-44C5-8EF8-EDED9E062BB9/0/entericscaryblair2013.pdf">http://chfs.ky.gov/NR/rdonlyres/73A1085E-AD36-44C5-8EF8-EDED9E062BB9/0/entericscaryblair2013.pdf</a>
<b>Specimen Handling and Transport:</b>	Food specimens - Ship overnight in cooler with cold packs. Call laboratory before sending specimens.
<b>Unacceptable Conditions:</b>	Stools 7 days or older
<b>Reference Range:</b>	
<b>CPT Code:</b>	Stool- 87045 Identification and Antigenic Typing- 87147
<b>Additional Comments:</b>	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

<b>DLS Department:</b>	Bacteriology/ Environmental Microbiology 502-564-4446 x 4459
<b>OUTREACH Test Code:</b>	Stools- SHGR Culture isolate- SHGR
<b>Includes:</b>	All Sero-Types
<b>Methodology:</b>	Isolation Identification and antigenic typing
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	Clinical-8-10 days Food- 5-15 days
<b>Specimen Requirements:</b>	Isolation- Stool Identification and Antigenic Typing- Pure culture isolate. Agar slant: Heart infusion, trypticase soy, blood or chocolate agar
<b>Collection Kit/Container:</b>	Stools - Cary Blair
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	Clinical - <a href="http://chfs.ky.gov/NR/rdonlyres/73A1085E-AD36-44C5-8EF8-EDED9E062BB9/0/entericscaryblair2013.pdf">http://chfs.ky.gov/NR/rdonlyres/73A1085E-AD36-44C5-8EF8-EDED9E062BB9/0/entericscaryblair2013.pdf</a>
<b>Specimen Handling and Transport:</b>	Food specimens - Ship overnight in cooler with cold packs. Call laboratory before sending specimens.
<b>Unacceptable Conditions:</b>	Stools 7 days or older
<b>Reference Range:</b>	
<b>CPT Code:</b>	Stool- 87045 Identification and Antigenic Typing- 87147
<b>Additional Comments:</b>	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

<b>DLS Department:</b>	Bacteriology	502-564-4446 x 4459
<b>OUTREACH Test Code:</b>	Stool - MEP Pure culture isolate on agar slant- MC	
<b>Includes:</b>		
<b>Methodology:</b>	Isolation and Identification	
<b>Availability:</b>	M-F	
<b>Turn-around-Time:</b>	Stool-3-7 days Pure culture isolate- 24hrs- 7days Food- 5-15 days	
<b>Specimen Requirements:</b>	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	
<b>Collection Kit/Container:</b>	Clinical – Stool -Cary Blair Transport Media	
<b>Patient Preparation:</b>		
<b>Collection and Packaging Instructions:</b>	Clinical: <a href="http://chfs.ky.gov/NR/rdonlyres/73A1085E-AD36-44C5-8EF8-EDED9E062BB9/0/entericscaryblair2013.pdf">http://chfs.ky.gov/NR/rdonlyres/73A1085E-AD36-44C5-8EF8-EDED9E062BB9/0/entericscaryblair2013.pdf</a> Food: <a href="http://chfs.ky.gov/NR/rdonlyres/60E2687E-19FA-4DC9-8B33-AC798D70167A/0/RevisedFoodSampleCollection.pdf">http://chfs.ky.gov/NR/rdonlyres/60E2687E-19FA-4DC9-8B33-AC798D70167A/0/RevisedFoodSampleCollection.pdf</a>	
<b>Specimen Handling and Transport:</b>	Food specimens - Ship overnight in cooler with cold packs. Call laboratory before sending specimens.	
<b>Unacceptable Conditions:</b>	Stools 7 days or older.	
<b>Reference Range:</b>	NA	
<b>CPT Code:</b>	87045	
<b>Additional Comments:</b>	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.	

## STREPTOCOCCAL INFECTION

<b>DLS Department:</b>	Bacteriology	502-564-4446 x 4459
<b>OUTREACH Test Code:</b>		
<b>Includes:</b>	See Miscellaneous Culture	
<b>Methodology:</b>		
<b>Availability:</b>		
<b>Turn-around-Time:</b>		
<b>Specimen Requirements:</b>		
<b>Collection Kit/Container:</b>		
<b>Patient Preparation:</b>		
<b>Collection and Packaging Instructions:</b>		
<b>Specimen Handling and Transport:</b>		
<b>Unacceptable Conditions:</b>		
<b>Reference Range:</b>		
<b>CPT Code:</b>		
<b>Additional Comments:</b>		

## SYPHILIS

<b>DLS Department:</b>	Virology                      502-564-4446 x 4483
<b>OUTREACH Test Code:</b>	IGGE
<b>Includes:</b>	SYPHILIS IgG, reflex VDRL, TP-PA
<b>Methodology:</b>	EIA NOTE: Screening and confirmation tests performed according to DLS established algorithm
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	48 hours- 5 days
<b>Specimen Requirements:</b>	Serum or whole blood in 7 ml red stoppered tube. CSF
<b>Collection Kit/Container:</b>	
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	Blood - <a href="http://chfs.ky.gov/NR/rdonlyres/B2DC7607-7525-4749-A34F-CDD906D2C37C/0/Multishipper.pdf">http://chfs.ky.gov/NR/rdonlyres/B2DC7607-7525-4749-A34F-CDD906D2C37C/0/Multishipper.pdf</a> Serum - <a href="http://chfs.ky.gov/NR/rdonlyres/30B0DD88-C121-461A-8ACC-94D5EC9263AD/0/Multishipperwithcoldpack.pdf">http://chfs.ky.gov/NR/rdonlyres/30B0DD88-C121-461A-8ACC-94D5EC9263AD/0/Multishipperwithcoldpack.pdf</a>
<b>Specimen Handling and Transport:</b>	Specimen should be stored at 2-8°C prior to shipping and shipped ASAP. If sending serum only, ship on cold pack. CSF should be collected normally and can be refrigerated or frozen.
<b>Unacceptable Conditions:</b>	
<b>Reference Range:</b>	Normal Range: Non-Reactive
<b>CPT Code:</b>	Syphilis IgG 86780 VDRL 86592 TP-PA 86781
<b>Additional Comments:</b>	



# TUBERCULOSIS

<b>DLS Department:</b>	Mycobacteriology	502-564-4446 x 4422
<b>OUTREACH Test Code:</b>	Clinical Samples- SCP Clinical Isolates- TBCP	
<b>Includes:</b>	Mycobacterium tuberculosis complex and currently other Mycobacteria other than tuberculosis.	
<b>Methodology:</b>	Direct Acid Fast Bacillus Smear, culture identification by DNA Probe, HPLC, or genetic sequencing, rapid PCR from direct specimens or concentrates, drug susceptibility studies on MTB isolates only.	
<b>Availability:</b>	M-F (in lab by 9:30am)	
<b>Turn-around-Time:</b>	24 hours for direct smear and PCR testing Final results for culture are available in up to 6 weeks	
<b>Specimen Requirements:</b>	Clinical Samples- Sputum, bronchial wash, bronchial alveolar lavage (BAL), fresh tissue, spinal fluid, pleural fluid, pus, urine, other body fluids. (No stool) Clinical Isolates- Referred isolates for identification and drug susceptibility studies	
<b>Collection Kit/Container:</b>	Isolates- Mailing container furnished by submitter Ensure collection container lids are screwed on correctly and tightly to prevent leakage.	
<b>Patient Preparation:</b>	Submit 3 specimens(preferably over 3-5 days), but as quickly as over 24 hours (not optimal) Early morning sputa(at least 5ml) are optimal(at least 1 specimen out of 3 must be early morning Sputa, suctioned sputa, saline-induced sputa, and invasively obtained specimens (BAL, bronchial washes and tissues) from other times are also permitted	
<b>Collection and Packaging Instructions:</b>	<a href="http://chfs.ky.gov/NR/rdonlyres/C0322862-F963-4FCF-9342-89DD21967D68/0/TBSputum2013.pdf">http://chfs.ky.gov/NR/rdonlyres/C0322862-F963-4FCF-9342-89DD21967D68/0/TBSputum2013.pdf</a>	
<b>Specimen Handling and Transport:</b>	Clinical Samples- mail immediately after collection; to be received within 24 hours; cold packs preferred-room temperature acceptable. Clinical Isolates- Provide fresh growth on slants; mail immediately at room temperature; avoid extreme temperatures	
<b>Unacceptable Conditions:</b>	Volumes less than 5ml of sputum will have a disclaimer.	
<b>Reference Range:</b>	No acid fast bacilli	

<b>PCR Testing:</b>	Smear positive specimens should be sent for PCR if no prior diagnosis of TB infection has been made. Testing of smear negative specimens requires prior approval and consultation with the TB program (502-564-4276)
<b>CPT Code:</b>	87116,87143,87149
<p><b>Additional Comments: Do not create “new” order on existing patients in the Outreach system. Search for the patient and add order so the entire TB history on the patient remains together. It is important to indicate in the ask it at order questions what TB drugs and when TB drugs were administered to the patient.</b></p> <p><b>Do not cover slant growth with patient labels. Place label on bottom portion or right below cap so growth on slant can be viewed through tube.</b></p>	

## TULAREMIA

<b>DLS Department:</b>	Preparedness      502-564-4446 x 4460
<b>OUTREACH Test Code:</b>	MC
<b>Includes:</b>	
<b>Methodology:</b>	PCR/ Culture Identification
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	PCR 24-48 hours Culture 4 days
<b>Specimen Requirements:</b>	Pure culture isolate on tubed chocolate agar
<b>Collection Kit/Container:</b>	
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	
<b>Specimen Handling and Transport:</b>	Mailing container furnished by submitter
<b>Unacceptable Conditions:</b>	
<b>Reference Range:</b>	Identification of organism submitted
<b>CPT Code:</b>	PCR 87798 Identification 87040
<b>Additional Comments:</b>	Call the Division of Epidemiology (888-9-REPORT) or the Division of Laboratory Services for specific instructions before sending any specimens.

## UNDULANT FEVER

<b>DLS Department:</b>	Preparedness      502-564-4446 x 4460
<b>OUTREACH Test Code:</b>	MC
<b>Includes:</b>	See Brucellosis
<b>Methodology:</b>	
<b>Availability:</b>	
<b>Turn-around-Time:</b>	
<b>Specimen Requirements:</b>	
<b>Collection Kit/Container:</b>	
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	
<b>Specimen Handling and Transport:</b>	
<b>Unacceptable Conditions:</b>	
<b>Reference Range:</b>	
<b>CPT Code:</b>	
<b>Additional Comments:</b>	

## VARICELLA ZOSTER (CHICKENPOX)

<b>DLS Department:</b>	Virology
<b>OUTREACH Test Code:</b>	Isolation-VIS Serology- VZE PCR - MVPCR
<b>Includes:</b>	Chickenpox
<b>Methodology:</b>	Isolation/ Serology EIA/PCR
<b>Availability:</b>	Twice weekly
<b>Turn-around-Time:</b>	PCR – 24hrs Isolation- 2-4 days Serology- 48-72 hours
<b>Specimen Requirements:</b>	PCR- Dry swab of lesion Isolation- Vesicle fluid/swab, swab in M4RT from lesion Serology- Serum or whole blood in 7 ml red stoppered tube
<b>Collection Kit/Container:</b>	Dry swab/holder - PCR M4RT viral media/Multishipper with cold pack
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	<a href="http://chfs.ky.gov/NR/rdonlyres/30B0DD88-C121-461A-8ACC-94D5EC9263AD/0/Multishipperwithcoldpack.pdf">http://chfs.ky.gov/NR/rdonlyres/30B0DD88-C121-461A-8ACC-94D5EC9263AD/0/Multishipperwithcoldpack.pdf</a>
<b>Specimen Handling and Transport:</b>	Serology- use normal blood collection, specimen should be stored at 2-8°C prior to shipping and shipped ASAP. If delay in shipping, separate blood from serum and send serum. Isolation- Ship with cold pack; Freeze specimen if not shipped within 48hrs. Serology- Send ASAP; Do not freeze
<b>Unacceptable Conditions:</b>	Expired M4RT media
<b>Reference Range:</b>	Serology: Consistent with Immunity – Immunity Reference Range >20.0 eu/mL Isolation: No Varicella Virus Isolated PCR - No VZV DNA detected by real-time PCR
<b>CPT Code:</b>	Isolation CPT 87250 Serology CPT 86787
<b>Additional Comments:</b>	Single serum for immune status. Send Acute and Convalescent sera for diagnosis

## VDRL

<b>DLS Department:</b>	Virology	502-564-4446 x 4483
<b>OUTREACH Test Code:</b>	IGGE	
<b>Includes:</b>	See Syphilis	
<b>Methodology:</b>		
<b>Availability:</b>		
<b>Turn-around-Time:</b>		
<b>Specimen Requirements:</b>		
<b>Collection Kit/Container:</b>		
<b>Patient Preparation:</b>		
<b>Collection and Packaging Instructions:</b>		
<b>Specimen Handling and Transport:</b>		
<b>Unacceptable Conditions:</b>		
<b>Reference Range:</b>		
<b>CPT Code:</b>		
<b>Additional Comments:</b>		

## VIBRIO CHOLERAЕ

<b>DLS Department:</b>	Bacteriology	502-564-4446 x 4459
<b>OUTREACH Test Code:</b>	VIB	
<b>Includes:</b>	Vibrio cholera and other vibrio species	
<b>Methodology:</b>	Identification and Typing	
<b>Availability:</b>	M-F	
<b>Turn-around-Time:</b>	48 hours- 7 days	
<b>Specimen Requirements:</b>	Clinical - Stool Identification and Typing- Pure culture isolate	
<b>Collection Kit/Container:</b>	Stool – Cary Blair Culture Isolate: Submitter packaging	
<b>Patient Preparation:</b>		
<b>Collection and Packaging Instructions:</b>	Clinical: <a href="http://chfs.ky.gov/NR/rdonlyres/73A1085E-AD36-44C5-8EF8-EDED9E062BB9/0/entericscaryblair2013.pdf">http://chfs.ky.gov/NR/rdonlyres/73A1085E-AD36-44C5-8EF8-EDED9E062BB9/0/entericscaryblair2013.pdf</a>	
<b>Specimen Handling and Transport:</b>		
<b>Unacceptable Conditions:</b>	Stool 7 days or older	
<b>Reference Range:</b>		
<b>CPT Code:</b>	87045	
<b>Additional Comments:</b>	Call the laboratory if Vibrio is suspected and before shipping specimen.	

## KY Division of Laboratory Services

Note: For bacteriological and chemical water analyses, all samples must be collected and submitted by authorized collectors. All samples from private sources must be received within 48 hours of collection. All samples from public drinking water systems must be received within 30 hours of collection. If additional tests are needed, contact the Division of Laboratory Services.

### WATER BACTERIOLOGICAL ANALYSIS

<b>DLS Department:</b>	Environmental Microbiology 502-564-4446 x 4491
<b>OUTREACH Test Code:</b>	WATERB
<b>Includes:</b>	Total coliform count, E. coli, and Pseudomonas
<b>Methodology:</b>	
<b>Availability:</b>	M-TH
<b>Turn-around-Time:</b>	Recreational and Drinking water- 24-48 hours Water from spas- 2-4 days Water from dairies- 2-4 days
<b>Specimen Requirements:</b>	Recreational water, Drinking water from private supplies, Water from spas, Water from dairies
<b>Collection Kit/Container:</b>	Refer to the Manual for Environmentalists and Milk Inspectors for all tests
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	<a href="http://chfs.ky.gov/NR/rdonlyres/B369DF0D-6C76-438D-9EC7-E3F93264C73F/0/WaterSampleCollectionandSubmissionforBacteriologicalExamination.pdf">http://chfs.ky.gov/NR/rdonlyres/B369DF0D-6C76-438D-9EC7-E3F93264C73F/0/WaterSampleCollectionandSubmissionforBacteriologicalExamination.pdf</a>
<b>Specimen Handling and Transport:</b>	
<b>Unacceptable Conditions:</b>	> 30 hours post collection dairy and public water supply > 48 hours post collection private waters
<b>Results Include:</b>	
<b>CPT Code:</b>	
<b>Additional Comments:</b>	





## WEST NILE VIRUS

<b>DLS Department:</b>	Virology      502-564-4446 X 44
<b>OUTREACH Test Code:</b>	West Nile IgM- WNM
<b>Includes:</b>	
<b>Methodology:</b>	Serology EIA
<b>Availability:</b>	Weekly
<b>Turn-around-Time:</b>	2-4 days
<b>Specimen Requirements:</b>	2ml Serum or whole blood in 7ml red stoppered tube, CSF
<b>Collection Kit/Container:</b>	
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	<a href="http://chfs.ky.gov/NR/rdonlyres/B2DC7607-7525-4749-A34F-CDD906D2C37C/0/Multishipper.pdf">http://chfs.ky.gov/NR/rdonlyres/B2DC7607-7525-4749-A34F-CDD906D2C37C/0/Multishipper.pdf</a>
<b>Specimen Handling and Transport:</b>	Normal blood collection, specimen should be stored at 2-8°C prior to shipping. Ship ASAP. CSF can be refrigerated or frozen prior to shipment.
<b>Unacceptable Conditions:</b>	
<b>Reference Range:</b>	Antibody Not Detected; Antibody Not Detected Range <0.90
<b>CPT Code:</b>	86788
<b>Additional Comments:</b>	Send acute and convalescent sera

## YERSINIA (PLAGUE)

<b>DLS Department:</b>	Preparedness      502-564-4446 x 4460
<b>OUTREACH Test Code:</b>	MC
<b>Includes:</b>	Yersinia pestis (plague)
<b>Methodology:</b>	PCR/ Culture Identification
<b>Availability:</b>	M-F
<b>Turn-around-Time:</b>	PCR: 24- 48 hours Culture: 4-5 days
<b>Specimen Requirements:</b>	Pure culture isolate on tubed media
<b>Collection Kit/Container:</b>	
<b>Patient Preparation:</b>	
<b>Collection and Packaging Instructions:</b>	
<b>Specimen Handling and Transport:</b>	Mailing container furnished by submitter
<b>Unacceptable Conditions:</b>	
<b>Reference Range:</b>	Identification of organism submitted
<b>CPT Code:</b>	87070
<b>Additional Comments:</b>	