

Table 1 version 6. Submission of enteric disease-associated bacterial isolates and specimens to the Enteric Diseases Laboratory Branch, effective as of September 1, 2022. Please ship the following isolates or specimens for the following services to: <insert CDC Point of Contact>; Centers for Disease Control and Prevention; RDSB/STATT Unit <insert Unit #>; 1600 Clifton Road, NE; Atlanta, GA 30329. Updates from the February 6, 2018 version of Table 1 are highlighted in pink. Test orders and points of contact for laboratory examination requested can be found at <http://www.cdc.gov/laboratory/specimen-submission/list.html>.

Specimen/organism	Service	Priority	Frequency/timing	Number to send, Submission scheme	Laboratory Examination Requested (test order, if applicable)	Preparation and Shipping Instructions§
Clinical, food, environmental specimens for botulism investigations	Outbreak investigation	ASAP^	As soon as specimens collected	All collected specimens	Botulism laboratory confirmation (CDC-10132)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
Fecal, environmental and food specimens for <i>Bacillus cereus</i> foodborne investigation	Outbreak investigation	ASAP^	as needed	consult contact person for number to send	<i>Bacillus cereus</i> Detection - foodborne outbreak (CDC-10104)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
Fecal, environmental and food specimens for <i>Clostridium perfringens</i> foodborne investigation	Outbreak investigation	ASAP^	as needed	consult contact person for number to send	<i>Clostridium perfringens</i> Detection - foodborne outbreak (CDC-10111)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
Fecal, environmental and food specimens for <i>Staphylococcus aureus</i> foodborne investigation	Outbreak investigation	ASAP^	as needed	consult contact person for number to send	<i>Staphylococcus aureus</i> Detection - foodborne outbreak (CDC-10113)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
Clinical, food, and environmental specimens for the isolation of <i>Campylobacter</i> , <i>Cronobacter</i> , <i>Listeria</i> , <i>Salmonella</i> , <i>Shigella</i> , STEC and other diarrheagenic <i>E. coli</i> ^, <i>Vibrio</i> , <i>Yersinia</i> (non-pestis) and other pathogenic <i>Enterobacteriaceae</i>	Outbreak/case investigation	ASAP^	as needed	consult contact person for number to send	Enteric Isolation (CDC-10106)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
Serum specimens: from suspect cases of <i>Campylobacter</i>	Outbreak investigation/surveillance	As scheduled	consult contact person for frequency/timing	consult contact person for type of specimen to send	<i>Campylobacter</i> species serology (10455)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
Serum specimens: from suspect cases of Shiga-toxin producing <i>E. coli</i>	Outbreak investigation/surveillance	As scheduled	consult contact person for frequency/timing	consult contact person for type of specimen to send	<i>Escherichia coli</i> (STEC) serology (not serotyping): CDC-10452 (<i>E. coli</i>)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
Serum specimens: from suspect cases of <i>Salmonella</i> serotype Typhi	Outbreak investigation/surveillance	As scheduled	consult contact person for frequency/timing	consult contact person for type of specimen to send	<i>Salmonella</i> serotype Typhi (only) serology (10453)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
Serum specimens: from suspect cases of <i>Vibrio cholerae</i>	Outbreak investigation/surveillance	As scheduled	consult contact person for frequency/timing	consult contact person for type of specimen to send	<i>Vibrio cholerae</i> serology (10454)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC

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	Specimen/organism	Service	Priority	Frequency/timing	Number to send, Submission scheme	Laboratory Examination Requested (test order, if applicable)	Preparation and Shipping Instructions§
	STEC (Shiga toxin-producing <i>E. coli</i>) broths	Reference/surveillance	ASAP^	as needed	Broths from cases of high public health importance (e.g., severe or unusual disease, outbreak-associated or unusual epidemiology) that are positive by Shiga toxin testing but culture-negative for STEC and produce growth on subculture. Consult contact person for prior approval.	Toxin typing, STEC isolation from enrichment broth (10105)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
O r g a n i s m s ↓	<i>Aeromonas</i> and related organisms	Reference/surveillance	At submitter's convenience	as needed	any isolates you would like to have analyzed	Identification, subtyping (CDC-10120)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
	<i>Bacillus cereus</i>	Outbreak investigation	ASAP^	as needed	consult contact person for number to send	Detection - foodborne outbreak (CDC-10104)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
	<i>Campylobacter</i>	Outbreak investigation	ASAP^	every suspected outbreak	consult contact person for number to send	<i>Campylobacter</i> subtyping (CDC-10127)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
	<i>Campylobacter</i> (FoodNet Sites Only)	NARMS ^b	As scheduled	at least quarterly	Every 2nd, 3rd, 5th, or all isolates (varies by state)	susceptibility testing for NARMS surveillance (10107)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
	<i>Campylobacter</i> , <i>Helicobacter</i> , and related organisms	Reference/surveillance	At submitter's convenience	as needed	isolates that cannot be identified or atypical / rare isolates	Identification (CDC-10126)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
	<i>Clostridium botulinum</i> and other botulinum producing species of <i>Clostridia</i>	Reference/surveillance	ASAP^	as needed	consult contact person for number to send	Botulinum toxin productin Clostridia subtyping (CDC-10133)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
	<i>Clostridium perfringens</i>	Outbreak investigation	ASAP^	As needed	consult contact person for number to send	Detection - foodborne outbreak (CDC-10111)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
	<i>Cronobacter sakazakii</i>	Outbreak investigation	ASAP^	Every suspected case	Every isolate	CDC-10123	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
	<i>Cronobacter species</i>	Reference/surveillance	At submitter's convenience, or ASAP^ if <i>C. sakazakii</i> has not been ruled out	Every suspected case	Any isolates requiring speciation	CDC-10123	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
	<i>Enterobacteriaceae</i> , other	Reference/surveillance	At submitter's convenience	as needed	any isolates implicated in enteric disease	Identification, serotyping, subtyping (CDC-10123)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC

Specimen/organism	Service	Priority	Frequency/timing	Number to send, Submission scheme	Laboratory Examination Requested (test order, if applicable)	Preparation and Shipping Instructions§
<i>Escherichia coli</i> , diarrheagenic^^	Outbreak investigation	ASAP^	Please send only when CDC requests	3 representative isolates	Susceptibility testing (CDC-10116); other testing upon request	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
<i>Escherichia coli</i> O157	NARMS ^b	As scheduled	at least quarterly	every 20th**	susceptibility testing for NARMS surveillance (10107)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
<i>Escherichia</i>	Reference/surveillance	At submitter's convenience	as needed	atypical isolates, rare serovars, or isolates that cannot be identified	Identification, serotyping, subtyping, virulence profiling (CDC-10114)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
<i>Listeria monocytogenes</i>	Outbreak investigation	At submitter's convenience *	in every suspected outbreak	3 representative isolates from patients	Identification, serotyping, subtyping (CDC-10129)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
<i>Listeria</i> , species other than <i>monocytogenes</i>	Reference/surveillance	At submitter's convenience *	every time it is isolated/as soon as it is isolated	any isolates obtained from a normally sterile body site	Identification, serotyping, subtyping (CDC-10129)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
<i>Salmonella</i>	Reference/surveillance	At submitter's convenience	as needed	atypical isolates, rare serovars, or isolates that cannot be identified	<i>Salmonella</i> identification and serotyping (CDC-10110)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
<i>Salmonella</i> (all non-typhoidal serotypes and serotype Paratyphi B)	NARMS ^b	As scheduled	at least quarterly	every 20th**	susceptibility testing for NARMS surveillance (10107)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
<i>Salmonella</i> (all non-Typhi serotypes)	Outbreak investigation	ASAP^	Please send only when CDC requests	3 representative isolates	<i>Salmonella</i> subtyping (CDC-10108)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
<i>Salmonella</i> (typhoidal serotypes Paratyphi A, Paratyphi C and Typhi)	NARMS ^b	As scheduled	at least quarterly	ALL	susceptibility testing for NARMS surveillance (10107)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
<i>Salmonella</i> serotype Typhi	Outbreak investigation	ASAP^	every suspected outbreak	consult contact person for number to send	<i>Salmonella</i> subtyping (CDC-10108)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
<i>Shigella</i>	Reference/surveillance	At submitter's convenience	as needed	any isolates you would like to have analyzed	Identification, subtyping (CDC-10114)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
<i>Shigella</i>	Outbreak investigation	ASAP^	Please send only when CDC requests	3 representative isolates	Susceptibility testing (CDC-10116)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
<i>Shigella</i>	NARMS ^b	As scheduled	at least quarterly	every 20th**	susceptibility testing for NARMS surveillance (10107)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
<i>Staphylococcus aureus</i>	Outbreak investigation	ASAP^	as needed	consult contact person for number to send	Detection - foodborne outbreak (CDC-10113)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
<i>Vibrio cholerae</i>	Reference/surveillance	ASAP^	every time it is isolated/as soon as it is isolated	All isolates	Identification, virulence testing (10119)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC

Specimen/organism	Service	Priority	Frequency/timing	Number to send, Submission scheme	Laboratory Examination Requested (test order, if applicable)	Preparation and Shipping Instructions§
<i>Vibrio mimicus</i>	Reference/surveillance	At submitter's convenience	at least quarterly	All isolates	Identification, virulence testing (CDC-10120)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
<i>Vibrio, non-cholerae</i>	Outbreak investigation	ASAP^	every suspected outbreak	All isolates	Identification, subtyping (CDC-10122)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
<i>Vibrio, non-cholerae</i>	NARMS [Ⓟ]	As scheduled	at least quarterly	All isolates	susceptibility testing for NARMS surveillance (10107)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
<i>Vibrio</i> and related organisms	Reference/surveillance	At submitter's convenience	as needed	any isolates requiring speciation and/or you would like to have analyzed	Identification, subtyping (CDC-10120)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
<i>Yersinia (non-pestis)</i>	Reference/surveillance	At submitter's convenience	as needed	any isolates requiring speciation and/or you would like to have analyzed	Identification, serotyping, biotyping, subtyping (CDC-10123)	Test Order Submitting Specimens to CDC Infectious Diseases Laboratories CDC
<p>§ Please submit specimens to CDC via CDC Specimen Test Order and Reporting (CSTOR) web portal or CDC 50.34 Specimen Submission Form: https://www.cdc.gov/laboratory/specimen-submission/form.html</p>						
<p>^Isolates/specimens with a priority of "ASAP" should be shipped as soon as possible (within one business day of presumptive identification)</p>						
<p>^^<i>Escherichia coli</i>, diarrheagenic = Shiga toxin-producing <i>E. coli</i> (STEC), Enterotoxigenic <i>E. coli</i> (ETEC), Enteropathogenic <i>E. coli</i> (EPEC), Enteroinvasive <i>E. coli</i> (EIEC) and Enteroaggregative <i>E. coli</i> (EAEC)</p>						
<p>ⓅNational Antimicrobial Resistance Monitoring System</p>						
<p>* Laboratories that are NOT performing whole genome sequencing and submitting data in real time for <i>Listeria</i> should ship isolates ASAP</p>						
<p>**For non-typhoidal <i>Salmonella</i>, <i>Shigella</i>, and <i>E. coli</i> O157 isolates included in NARMS surveillance, the 1st isolate collected each year should be submitted, followed by every 20th isolate</p>						
<p>General inquiries: entericbacteria@cdc.gov, 404-639-3334</p>						