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Reporting Title: Bacterial Typing, Whole Genome Seq
Performing Location: Rochester

Ordering Guidance:

Acinetobacter baumannii, Campylobacter jejuni/coli, Clostridioides difficile (formerly *Clostridium difficile*), *Cutibacterium* (*Propionibacterium*) *acnes, Enterobacter cloacae, Enterococcus faecalis, Enterococcus faecium, Escherichia coli, Klebsiella pneumoniae, Legionella pneumophila, Pseudomonas aeruginosa, Serratia marcescens, Staphylococcus aureus, Staphylococcus epidermidis, Staphylococcus lugdunensis, Streptococcus agalactiae*, and *Streptococcus pyogenes* are tested by this method.

Additional Testing Requirements:

If uncertain of organism identification, concomitantly order IDENT / Organism Referred for Identification, Aerobic Bacteria or ANIDE / Organism Referred for Identification, Anaerobic Bacteria.

Shipping Instructions:

1. For shipping information see Infectious Specimen Shipping Guidelines.
2. Place isolates in a large infectious container and label as an etiologic agent/infectious substance.
3. Place all isolates (all patients and/or sites to be compared) submitted for whole genome sequencing together in 1 large bag and send in the same shipping container. This is necessary for comparison of isolates by this method.

Necessary Information:

1. Organism identification and specimen source are required.
2. ***Acinetobacter baumannii***: Isolate must be *A baumannii*. Identifications of *A baumannii* complex and *A baumannii/calcoaceticus* complex are not acceptable.
3. ***Enterobacter cloacae***: Isolate must be a member of the *E cloacae* complex (ie, *Enterobacter asburiae, Enterobacter bugandensis, E cloacae, E cloacae* subspecies *cloacae, E cloacae* subspecies *dissolvens, Enterobacter hormaechei* subspecies *hormaechei, Enterobacter kobei, Enterobacter ludwigii, Enterobacter xiangfangensis*).
4. ***Klebsiella pneumoniae***: Isolate must be a member of the *K pneumoniae* complex (ie, *K pneumoniae, K pneumoniae* subspecies *pneumoniae, K pneumoniae* subspecies *ozaenae*, or *K pneumoniae* subspecies *rhinoscleromatis*).
5. An email address registered on the Mayo Clinic Laboratories website is required for report delivery.

Specimen Requirements:

Aerobic Bacteria
Supplies: Infectious Container, Large (T146)
Container/Tube: Agar slant
Specimen Volume: Isolates on separate agar slants in pure culture
Collection Instructions:
1. Isolate the bacteria (must be *Acinetobacter baumannii, Campylobacter jejuni/coli, Enterobacter cloacae, Enterococcus faecalis, Enterococcus faecium, Escherichia coli, Klebsiella pneumoniae, Legionella pneumophila, Pseudomonas aeruginosa, Serratia marcescens, Staphylococcus aureus, Staphylococcus epidermidis, Staphylococcus lugdunensis, Streptococcus agalactiae*, or *Streptococcus pyogenes*).
2. Bacterial isolate must be in pure culture, actively growing. **Do not submit mixed cultures.**
3. Each isolate must be submitted under a separate order.

Anaerobic Bacteria

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Supplies:
-Anaerobe Transport Tube (T588)
-Infectious Container, Large (T146)

Container/Tube:

Preferred: Anaerobic transport tube

Acceptable: Thioglycollate broth or any other suitable anaerobic transport system

Specimen Volume: Isolates in separate transport tubes in pure culture

Collection Instructions:

1. Isolate the bacteria (must be *Clostridioides difficile* or *Cutibacterium* [*Propionibacterium*] *acnes*).

2. Do not submit growth directly from a CHROMagar plate; subculture to anaerobic media to obtain pure isolate and confirm identification prior to submission.

3. Bacterial isolate must be in pure culture, actively growing. **Do not submit mixed cultures.**

4. Each isolate must be submitted under a separate order.

Forms:

If not ordering electronically, complete, print, and send a Microbiology Test Request (T244) with the specimen.

Specimen Type	Temperature	Time	Special Container
Varies	Ambient (preferred)		
	Refrigerated		

Ask at Order Entry (AOE) Questions:

Test ID	Question ID	Description	Type	Reportable
BTWGS	Q00M0047	Specimen Source (Required) and Organism Identification (Required)	Plain Text	Yes

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
BTWGS	Bacterial Typing, Whole Genome Seq	Alphanumeric	mL	90246-0

LOINC® and CPT codes are provided by the performing laboratory.

Supplemental Report:
No

CPT Code Information:
0010U-Bacterial Typing, Whole Genome Seq
87900-Bioinformatics Reanalysis (if appropriate)
87077-Ident by MALDI-TOF mass spec (if appropriate)

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87153-Aerobe ident by sequencing (if appropriate)

87077-Additional identification procedure (if appropriate)

87076-Id MALDI-TOF mass spec anaerobe (if appropriate)

87076-Anaerobe Ident (if appropriate)

87153-Anaerobe ident by sequencing (if appropriate)

Reflex Tests:

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
BIORE	Bioinformatics Reanalysis	1	87900	No	No, (Bill Only)
RMALD	Ident by MALDI-TOF mass spec	1	87077	No	No, (Bill Only)
ISAE	Aerobe Ident by Sequencing	1	87153	No	No, (Bill Only)
REFID	Additional Identification Procedure	1	87077	No	No, (Bill Only)
RMALA	Id MALDI-TOF Mass Spec Anaerobe	1	87076	No	No, (Bill Only)
ANAID	Anaerobe Ident	1	87076	No	No, (Bill Only)
ISAN	Anaerobe Ident by Sequencing	1	87153	No	No, (Bill Only)

Reference Values:

Reported as isolates are "related," "possibly related," or "unrelated."

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