
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

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	No

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)
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	Orderable Separately
BIORE	Bioinformatics Reanalysis			No	No (Bill Only)
RMALD	Ident by MALDI-TOF mass spec			No	No (Bill Only)
ISAE	Aerobe Ident by Sequencing			No	No (Bill Only)
REFID	Additional Identification Procedure			No	No (Bill Only)
RMALA	Id MALDI-TOF Mass Spec Anaerobe			No	No (Bill Only)
ANAID	Anaerobe Ident			No	No (Bill Only)
ISAN	Anaerobe Ident by Sequencing			No	No (Bill Only)

Reference Values:

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