

Bacterial Typing, Whole Genome Sequencing, Varies

Test ID: BTWGS

Explanation: On the effective date, Mayo Supply T853 – ESwab will become the new preferred specimen type for aerobic bacterial strain typing. See the updated specimen requirements below for instructions on submitting isolates using this supply. Clarifying language is also being added to the Necessary Information field, highlighting the importance of referencing the anatomical body site in the specimen source prompt.

Current Necessary Information

1. Organism identification and specimen source are required.

New Reference Value

1. Organism identification and specimen source (anatomical body site) are required.

Current Specimen Required

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

New Specimen Required

Aerobic Bacteria

Preferred:

Specimen Type: Bacterial isolate swab

Supplies:

E-swab (T853)

Infectious Container, Large (T146)

Container/Tube:

Preferred: E-Swab collection and transport system

Acceptable: Flocked swab and 1-mL liquid Amies transport medium in 12 x 80 mm tube.

Collection Instructions:

1. Perform isolation of infecting 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. Utilize the flocked swab to obtain an adequate sample of pure cultured isolate. **Do not submit mixed cultures.**

3. Place swab into the transport system containing 1-mL liquid Amies transport medium.

4. If needed, break off end of swab and close the transport tube.

5. Place the transport system into the secondary infectious container for shipment.

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.**

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

Acceptable:

Specimen Type: Pure culture of organism from source cultured

Supplies: Infectious Container, Large (T146)

Container/Tube: Agar slant or other appropriate media

Collection Instructions:

1. Perform isolation of bacterial isolate.
2. Organism must be in pure culture, actively growing. **Do not submit mixed cultures.**
3. Place the agar slant or other appropriate media into the secondary infectious container for shipment
4. 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.

Questions

Contact Brandon DeBoom, Laboratory Resource Coordinator at 800-533-1710.