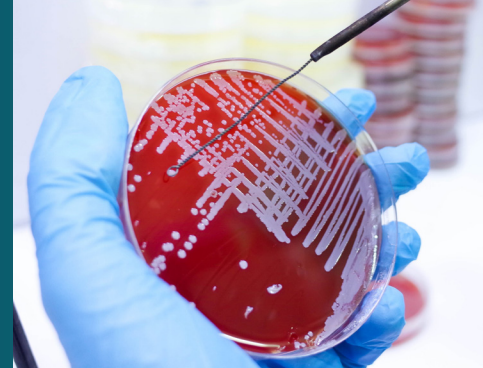


MULTIDRUG-RESISTANT ORGANISM REPOSITORY AND SURVEILLANCE NETWORK (MRSN)

SILVER SPRING, MARYLAND



BACTERIAL TESTING CAPABILITIES

Identification

Bacterial ID performed using the Bruker Mass Spectrometry (MS) & Vitek MS

Carbapenemase Detection

Detected in *Enterobacteriaceae* & *Pseudomonas aeruginosa* using the Carba5 lateral flow assay

Antibiotic Susceptibility Testing (AST)

Testing performed on the Sensititre, Vitek, and manual antimicrobial susceptibility tests. All antibiotics on the Vitek N808, XN-32, and GP-78 cards PLUS

- Aztreonam/Avibactam
- Aztreonam plus Ceftazidime/Avibactam
- Cefiderocol
- Ceftazidime/Avibactam
- Ceftolozane/Tazobactam
- Colistin
- Delafloxacin
- Eravacycline
- Imipenem
- Imipenem/Relebactam
- Meropenem
- Meropenem/Vaborbactam
- Omadacycline
- Plazomicin
- Sulbactam/Durlobactam (*Acinetobacter baumannii*)

FUNGAL TESTING CAPABILITIES

Identification

Candida species ID performed using:

- Bruker Mass Spectrometry
- Vitek Mass Spectrometry
- Whole Genome Sequencing

Antifungal Testing

Testing performed on the Sensititre system and E-test

- Amphotericin B
- Anidulafungin
- Caspofungin
- Fluconazole
- Isavuconazole
- Itraconazole
- Micafungin
- Posaconazole
- Rezafungin
- Voriconazole

Why MRSN?

The MRSN is the DoW's only reference lab for AST on MDROs

**Rapid
Turn-around Time:
24 -72 hrs**

Seamless ordering/
reporting via
MHS Genesis

Evolving antibiotic
test menu

No additional cost
to MTFs

MRSN can provide
all supplies and
instructions needed
to ship the isolates





Transferring Specimens

1. Open Genesis App Bar
2. Click **Result Entry** button
3. Enter **Accession Number**
4. Click **Procedure Setup**
5. Click **Transfer Procedure**
6. Click the **drop-down arrow**
7. Select **7148-MICRO Man Bench**
8. Click **OK**
9. Click **OK**
10. Email Ms. Yoon (Mimi) Kwak at yoan.i.kwak.civ@health.mil that the sample has been transferred

Viewing Results

1. Open Genesis App Bar
2. Click the **Order Result Viewer** button
3. Click the **Accession** radio button and enter the accession number
4. Double click the selected test
5. View test results

NOTES

- Genesis does not notify your facility when the MRSN enters results.
- Refer to Viewing Results PDF for instructions on how to view results.
- Transfer the accession number back to your facility using the same steps. Ensure the sample is logged back in using Specimen Log-in.