

**Reporting Title:** Susceptibility, Aerobic, MIC

**Performing Location:** Mayo Clinic Laboratories - Rochester Main Campus

**Ordering Guidance:**

Mayo Clinic Laboratories will not perform susceptibility testing on select agents (eg, *Bacillus anthracis*, *Brucella* species, *Burkholderia mallei*, *Burkholderia pseudomallei*, *Francisella tularensis*, and *Yersinia pestis*). Consult with your state health department or the Centers for Disease Control and Prevention regarding antimicrobial susceptibility testing of such isolates. For more information see [www.selectagents.gov/sat/list.htm](http://www.selectagents.gov/sat/list.htm).

**Shipping Instructions:**

1. See [Infectious Specimen Shipping Guidelines](#)
2. Place specimen in a large infectious container and label as an etiologic agent/infectious substance.

**Necessary Information:**

**Organism identification and specimen source are required.**

**Specimen Requirements:**

**Supplies:** Infectious Container, Large (T146)

**Container/Tube:** Agar slant or other appropriate media

**Specimen Volume:** Organism in pure culture

**Collection Instructions:**

1. Perform isolation of infecting bacteria.
2. Organism must be in pure culture, actively growing. **Do not submit mixed cultures.**

**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		
	Frozen		

**Ask at Order Entry (AOE) Questions:**

Test ID	Question ID	Description	Type	Reportable
ZM MLS	Q00M0 070	Specimen Source (Required) and Organism Identification (Required unless concurrent identification test is ordered)	Plain Text	Yes

**Result Codes:**

Result ID	Reporting Name	Type	Unit	LOINC®
ZMMLS	Susceptibility, Aerobic, MIC	Alphanumeric		21070-8

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

**Supplemental Report:**

No

**CPT Code Information:**

87077-Ident by MALDI-TOF mass spec (if appropriate)

87185-Beta lactamase (if appropriate)

87186-Antimicrobial Susceptibility, Aerobic Bacteria, MIC-per organism for routine battery (if appropriate)

87181-Susceptibility per drug and per organism for drugs not in routine battery (if appropriate)

87150-H pylori + Clarithro Resistance PCR (if appropriate)

87150-mecA PCR (if appropriate)

**Reflex Tests:**

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
RMALD	Ident by MALDI-TOF mass spec	1	87077	No	No, (Bill Only)
BLA	Beta Lactamase	1	87185	No	No, (Bill Only)
SUS	Susceptibility	1	87181	No	No, (Bill Only)
HPCR1	H pylori + Clarithro Resistance PCR	1	87513	No	No, (Bill Only)
MECAB	mecA PCR Test, Bill Only	1	87150	No	No, (Bill Only)

**Reference Values:**

Susceptibility results are reported as minimal inhibitory concentration (MIC) in mcg/mL. Breakpoints (also known as clinical breakpoints) are used to categorize an organism as susceptible, susceptible-dose dependent, intermediate, resistant, or nonsusceptible according to breakpoint setting organizations, either the Clinical and Laboratory Standards Institute (CLSI) or the European Committee on Antimicrobial Susceptibility Testing (EUCAST), as applicable.

In some instances, an interpretive category cannot be provided based on available data; therefore, the following comment will be included on the report: There are no established interpretive guidelines for agents reported without interpretations.

For information regarding CLSI and EUCAST susceptibility interpretations, see [Susceptibility Interpretative Category Definitions](#).