Antimicrobial Susceptibility Testing

UMIC® Cefiderocol

High accuracy cefiderocol MIC testing

Innovation with Integrity

Overuse and misuse of antibiotics has led to the rise of multi-drug resistant (MDR) microorganisms. Multiple initiatives are ongoing to fight against the global antimicrobial resistance (AMR) challenge. From a drug development perspective, cefiderocol is one of the most promising antibiotics. Cefiderocol is a siderophore cephalosporin covering a broad spectrum of gram-negative bacteria such as Enterobacterales and non-fermenting bacteria. Yet more important, cefiderocol remains active even when facing the most challenging carbapenem resistance mechanisms.

While needing to make the right decision with regard to patient treatment, escalation or de-escalation in the context of AMR, antibiotic stewardship teams consider preserving the long-term efficacy of antibiotics. To support this, clinical microbiologists are looking for a reliable and accurate cefiderocol MIC testing solution.

Bruker´s UMIC Cefiderocol offers the gold standard method of broth microdilution (BMD) in full compliance with EUCAST and CLSI standards. The method requires a dedicated iron-depleted Mueller Hinton Broth, is easy to implement with a routine-friendly workflow, and doesn´t need any additional equipment. Finally, UMIC Cefiderocol can be conveniently tested along with UMIC Colistin to deliver trusted MIC results when they matter the most.

IVD

Easy workflow

- Prepare a standard 0.5 McFarland bacterial suspension in sodium chloride solution
- Transfer an aliquot of 25 µL into iron-depleted cation-adjusted Mueller Hinton broth (CAMHB)
- Inoculate UMIC Cefiderocol by transferring 100 µL to each well of the appropriate number of UMIC strips
- Incubate UMIC Cefiderocol in the UMIC Box for 18-24 hours at 35-37°C
- Read the MIC results visually and document them in the results sheet

Shelf life and storage

UMIC Cefiderocol
- Shelf life: 24 months from date of production (unopened), expires 8 weeks after opening of the resealable bag
- Storage: at room temperature (15-25°C)

Iron-depleted CAMHB
- Shelf life: 12 months from date of manufacturing
- Storage: at 2-25°C

UMIC Cefiderocol concentration range (in µg/mL)

1	2	3	4	5	6	7	8	9	10	11	12
GC	0.03	0.06	0.125	0.25	0.5	1	2	4	8	16	32

UMIC Cefiderocol is suitable to determine MIC values in the range of 0.03 to 32 µg/mL for Enterobacterales, *Pseudomonas aeruginosa*, *Acinetobacter baumannii* and *Stenotrophomonas maltophilia*.

Order information

UMIC Cefiderocol
40 tests per box / Part No. UM-CID-040

Iron-depleted CAMHB
1 tube per test, 20 tubes per box / Part No. E2-333-020

UMIC Box
One box (reusable) / Part No. UM-BOX-001

UMIC Box Label Set
Label set for all UMIC products / Part No. UM-BOX-LBL

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Please contact your local representative for availability in your country.
Not for sale in the USA.

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