

# KPC + MBL Confirm ID kit

For identification of Metallo- $\beta$ -lactamases  
and KPC enzymes (Class A)



*K. pneumoniae* PHA3 CL5761 KPC positive

- ✓ **Simple to test**
- ✓ **Easy to interpret**
- ✓ **Long shelflife**
- ✓ **After opening, room temperature storage ( $\leq 25^{\circ}\text{C}$ )**
- ✓ **High sensitivity and specificity**

**Carbapenemases should be suspected if:**

Ertapenem zone  $\leq 22$  mm (*Enterobacteriaceae*) or meropenem zone  $< 25$  mm (*Enterobacteriaceae/P. Aeruginosa*).

**MBL suspected if:**

- Resistance to ceftazidime
- No synergy Cephalosporin/Clavulanate
- Reduced susceptibility to carbapenems

**KPC show:**

- Negative metallo- $\beta$ -lactamase test
- Synergy between Boronic acid and Carbapenems
- No synergy between Cloxacillin and Carbapenems

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- **Combined disk test**

Apply one tablet of:

Meropenem (MRP10)  
Meropenem+DPA (MR+DP)  
Meropenem+Boronic (MR+BO)  
Meropenem+Cloxacillin (MR+CL)

on an inoculated Mueller Hinton agar plate (McFarland 0.5).

- **Interpretation (combined test)**

- 1) Meropenem + Boronic

**inhibition zones  $\geq$  5 mm than**

Meropenem  
Meropenem+Cloxacillin ***indicates a presence of a KPC enzyme (or other class A)***

- 2) Meropenem+Boronic and  
Meropenem+Cloxacillin

**inhibition zones  $\geq$  5 mm than**

Meropenem ***indicates AmpC hyperproduction + porin loss or efflux (30)***

- 3) Meropenem +DPA

**inhibition zones  $\geq$  5 mm than**

Meropenem ***indicates the presence of a metallo- $\beta$ -lactamase (MBL)***

For detailed information about the test, please also look in:

- Our Neo-Sensitabs™ Users Guide - document **1.5.0, page 5**
- Detection of resistance mechanisms using Neo-Sensitabs™ and Diatabs™
- Detection of beta-lactamase, Carbapenemase, KPC + MBL Confirm ID kit

**One kit containing (50 tests):**

1 cartridge of Meropenem  
1 cartridge of Meropenem+DPA  
1 cartridge of Meropenem+Boronic  
1 cartridge of Meropenem+Cloxacillin