

IVD solutions through partnership

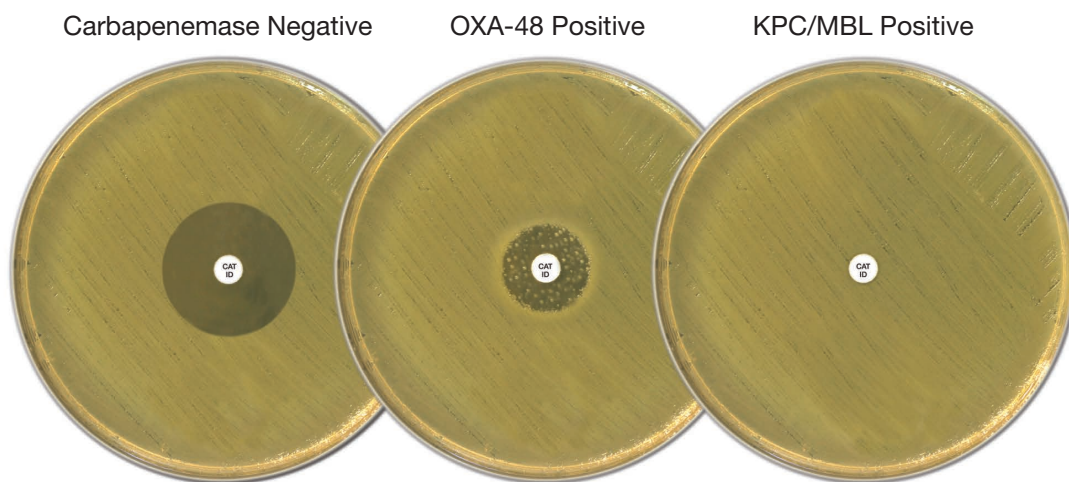


# **MASTDISCS<sup>®</sup>** *ID*

**MAST<sup>®</sup> CAT-ID**

**Carbapenemase Screening Simplified**

- **No measurement required**
- **Cost effective**
- **Detects OXA-48-CPE**
- **EUCAST and CLSI compliant**



## Background

Resistance amongst Gram-negative Enterobacteriaceae continues to be an increasing threat to healthcare environments worldwide. Of particular concern is the development and rise of carbapenemase-producing-Enterobacteriaceae (CPE), which renders carbapenems, often the last line of defence against ESBL and AmpC-producing isolates, ineffective. There is significant difficulty associated with the detection of CPE, when performing first line panel testing in hospital laboratories, due to the diverse susceptibility patterns that vary between different types of carbapenemase enzymes (MBL, OXA, and KPC). The breakpoints that are advised are not always reliable for the detection of CPE, and it has often been found that even modified carbapenem disc cut-offs fail to detect a substantial proportion of CPE isolates. Although methods have been developed for the detection of KPC and MBL enzymes, OXA-48-like-enzymes remain difficult to distinguish.

**MAST**<sup>®</sup> CAT-ID utilises the unique phenotypic properties of faropenem for simple, sensitive and specific screening of carbapenemase activity. With **MAST**<sup>®</sup> CAT-ID, no measuring is required, and carbapenemase production is identified via simple observation. As can be seen above, MBL and KPC-producing isolates will display total resistance to faropenem and no zone is generated around the **MAST**<sup>®</sup> CAT-ID disc. Furthermore, OXA-48-producing isolates are easily distinguished from the unique formation of a 'double zone' around the **MAST**<sup>®</sup> CAT-ID disc, which features a clear zone with micro-colonies.

## Benefits of CAT-ID

- Simple one-disc screening test for carbapenemase activity
- No calculation or measurement required
- Identifies OXA-48 production
- EUCAST and CLSI compliant

## Ordering Information

Order Code	Product	Pack size
D71C	<b>MASTDISCS</b> <sup>®</sup> ID CAT-ID - Carbapenemase Activity Test	250 Tests
<b>Additional products from Mast's carbapenemase detection range</b>		
D73C	<b>MASTDISCS</b> <sup>®</sup> <i>Combi Carba plus</i>	5 × 50 Discs / 50 Tests
D74	<b>MAST</b> <sup>®</sup> ICT Indirect Carbapenemase Test	25 tests

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