

IVD solutions through partnership



# **MASTDISCS<sup>®</sup>** *Combi*

**ESBL Detection Set (EUCAST) - D76C**

Cefotaxime & Ceftazidime

**NEW**  
**EUCAST**  
Recommended

- New disc potencies recommended by EUCAST
- Simple manuell comparative interpretation
- Convenient calculator provided free for simple automatic interpretation
- Compatible with MAST<sup>®</sup> DISCMASTER dispenser

## Extended Spectrum beta-lactamases

Extended spectrum beta-lactamases (ESBLs) are bacterial enzymes which confer resistance to penicillin and extended spectrum cephalosporin antibiotics in members of the order Enterobacterales. Most ESBL are susceptible to cephamycins, and are susceptible to carbapenems although resistance can arise through porin loss.

The prevalence of ESBL producing pathogens is continuing to increase worldwide, limiting the antibiotic treatment options posing challenges in antibiotic management. Disc diffusion using cephalosporin discs with and without clavulanic acid, are used for phenotypic confirmation of ESBL production in Enterobacterales.

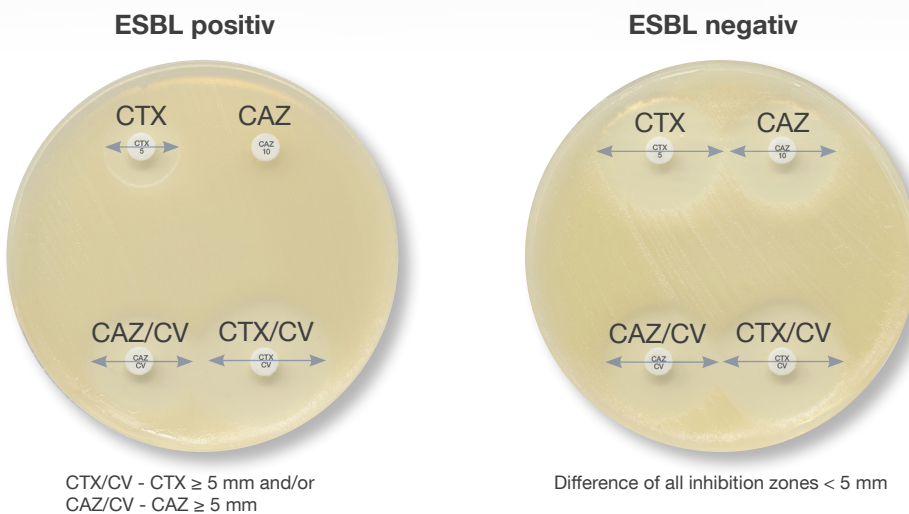
EUCAST has aligned the cephalosporin disc potencies for antimicrobial susceptibility testing (AST) and ESBL confirmation. Accordingly, EUCAST recommends laboratories to introduce combination discs containing cefotaxime 5 µg and ceftazidime 10 µg with and without clavulanic acid 10 µg for routine phenotypic confirmation of ESBL production in Enterobacterales<sup>1</sup>.

### MASTDISCS® Combi ESBL Detection Set (EUCAST)

MAST's range of ESBL detection discs offers laboratories a simple, reliable and low cost means of identification and detection by using paired combination disc sets.

The MASTDISCS® Combi ESBL Detection Set (EUCAST) contains two paired sets of cartridges each containing approximately 50 discs:

- 1 × Cefotaxime 5 µg discs
- 1 × Cefotaxime 5 µg + Clavulanic acid 10 µg discs
- 1 × Ceftazidime 10 µg discs
- 1 × Ceftazidime 10 µg + Clavulanic acid 10 µg discs



CTX - Cefotaxime  
CAZ - Ceftazidime  
CV - Clavulanic acid

#### For use of D76C calculator:

Results can also be interpreted using the D76C calculator (available for free download at [www.mast-group.com](http://www.mast-group.com)).

Input measured diameter of inhibition zones on the D76C calculator:

Interpretation of results are generated automatically.

## Ordering Information

Order Code	Product	No. Tests
171762	MASTDISCS® Combi ESBL Detection Set (EUCAST) - D76C	50

1. EUCAST technical guidance on the use of the combination disk test (CDT) for confirmation of ESBL in Enterobacterales (Feb 2019)

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