ESBL DETECTION

NG-TEST® CTX-M Multi

HARDY DIAGNOSTICS
A Culture of Service™

NG-TEST® CTX-M Multi

NG-TEST® CTX-M Multi is an *in vitro* rapid, and visual immunochromatographic assay for the qualitative detection of CTX-M enzymes (groups 1, 2, 8, 9, and 25) from pure colonies of Enterobacterales suspected of ESBL production when grown on the following media:

- 5% sheep blood agar or MacConkey agar (16-24 hours)
- HardyCHROM™ ESBL agar (18-24 hours)

CTX-Ms now represent the majority of ESBLs.

β-lactams are first-line antibiotics used to treat infections caused by Enterobacterales. Since the beginning of their massive use in the 1940s, their efficacy has been challenged by the production of enzymes that inactivate them: β-lactamases. Among them, the Extended-Spectrum β-Lactamases (ESBLs) hydrolyse most β-lactams sparing only cephamycins (such as cefoxitin) and carbapenems. In the 1990s, the main ESBLs were derived from TEM- and SHV-type enzymes, and mainly diffused within hospital clones of *Klebsiella pneumoniae* and other Enterobacterales. Diffusion of CTX-Ms within the *Escherichia coli* species changed this situation. Currently, more than 170 CTX-M variants have been identified and described in five main groups (**CTX-M groups 1, 2, 8, 9 & 25**).

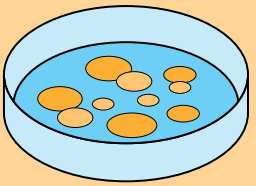
Dominant variants are geographically different. However, CTX-M-15 (group 1) and CTX-M-14 (group 9) are the most detected around the world, followed by CTX-M-2 (group 2). They are equally isolated in community and hospital settings and seem to be endemic in long-term care institutions.

20/pk **CTXM**

Workflow

Stool/Urine/
Biological samples

Validated media* 16-24H

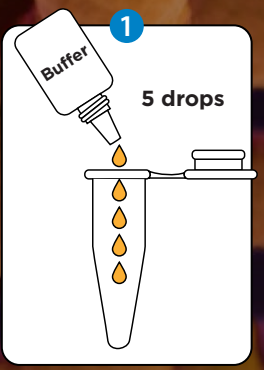


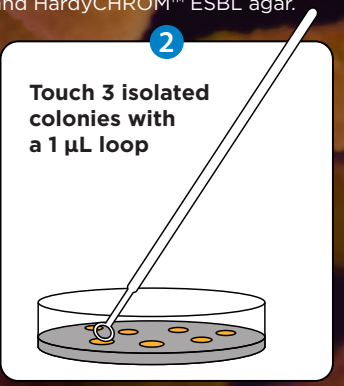
15 min

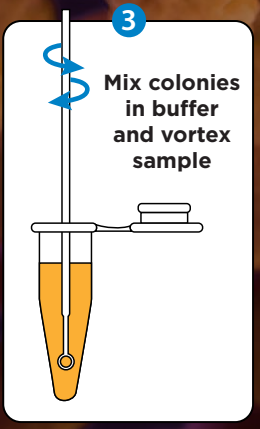
NG-TEST® CTX-M Multi

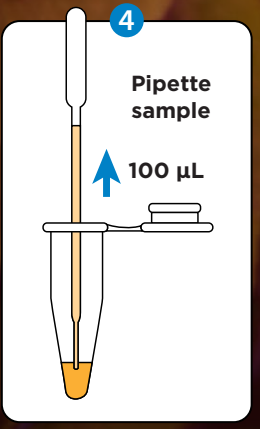
*Validated on 5% sheep blood agar, MacConkey agar, and HardyCHROM™ ESBL agar.

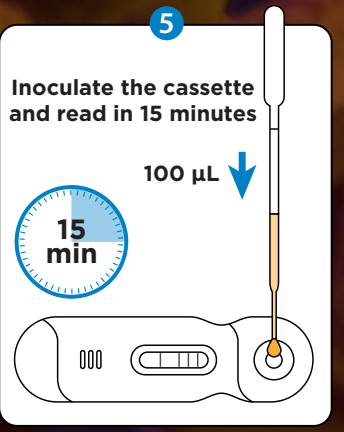
Operating procedure from bacterial culture











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HARDY DIAGNOSTICS

A Culture of Service™

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Hardy Diagnostics donates 1% of each sale to charity.

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Hardy Diagnostics has a Quality Management System that is certified to ISO 13485 and is a FDA licensed medical device manufacturer.

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Hardy Diagnostics is the exclusive distributor in the U.S. and its territories for the NG Biotech lateral flow assay solutions product line.