

Title (en)

DETECTING BETA-LACTAMASE ENZYME ACTIVITY

Title (de)

NACHWEIS VON BETA-LACTAMASE-ENZYMAKTIVITÄT

Title (fr)

DETECTION D'UNE ACTIVITE ENZYMATIQUE DES BÉTA-LACTAMASES

Publication

**EP 4284941 A1 20231206 (FR)**

Application

**EP 22706069 A 20220125**

Priority

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- FR 2022050133 W 20220125

Abstract (en)

[origin: WO2022162303A1] It is essential to have efficient, simple, quick and transportable tools for reliably identifying bacteria that are multiresistant to antibiotics, more specifically broad-spectrum beta-lactamase (BSBL)-producing Enterobacteriaceae, which are the most widespread among Enterobacteriaceae. The present invention meets this requirement through its ease of use and its speed. The invention is based on detecting the enzyme activity of beta-lactam hydrolysis using an antibody capable of discriminating between the intact form of the beta-lactam ring of a beta-lactam and its hydrolysis product. This antibody can be used in kits and methods enabling for rapidly detecting (in less than one hour), without using expensive equipment (a small strip visible to the naked eye), the presence of bacteria producing penicillin-type, plasmid-mediated or hyper-produced AmpC enzymes, of BSBL or carbapenemase from colonies or in a sample.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2022162303A1

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