

# ***lactamator***<sup>TM</sup>

**LACTAMATOR<sup>TM</sup>** is an innovative enzyme based product developed by CPC Biotech and specifically designed for the inactivation of a wide range of beta-lactam antibiotics. **LACTAMATOR<sup>TM</sup>**, in its current formulation, efficiently inactivates penicillins, cephalosporins of first, second, third, fourth, fifth generation and penems.

With **LACTAMATOR<sup>TM</sup>** the inactivation of resistant beta-lactams as Cefepime, Cefoxitin, Cephadrine, Ceftobiprole and many others is now possible.

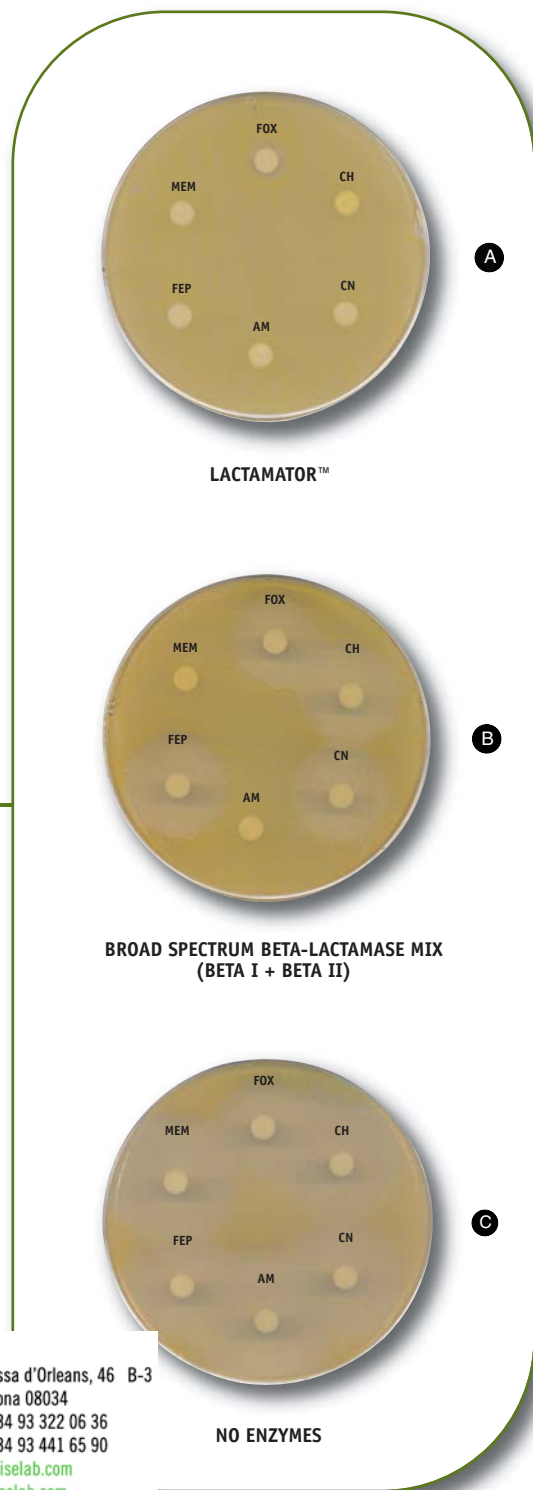
**LACTAMATOR<sup>TM</sup>**, is available as freeze dried powder and as sterile liquid ready to use formulation. Freeze dried powder has simply to be reconstituted with purified water and sterile filtered. Thanks to its optimized formulation no salts or other components should be added to reach the maximum activity. The high stability of **LACTAMATOR<sup>TM</sup>** in all its formulation allows you to keep the products for long time without losing activity.

## EXPERIMENTAL DATA

The potency of **LACTAMATOR<sup>TM</sup>** was tested by monitoring the inhibition diameter zone test and using *S. aureus* ATCC6538 as a test microorganism.

TSA plates + inactivators containing (A) 500 IU of **LACTAMATOR<sup>TM</sup>**/lt of medium, (B) 500 IU of a commercially available Broad Spectrum beta-lactamase mixture (beta I + beta II)/lt of medium and (C) no enzymes (as control) were prepared.

The plates were then gamma-irradiated and subsequently plated with a culture of *S. aureus* ATCC6538. Antibiotics paper disk of Cefoxitin (FOX), Cephadrine (CH), Cefalexin (CN), Ampicillin (AM), Cefepime (FEP) and Meropenem (MEM) were placed on the surface of each plate. The plates were incubated for 14 hours at 35°C and the inhibition diameter zones were measured. The results obtained and shown in the figure clearly indicates the power of **LACTAMATOR<sup>TM</sup>** into inactivating even the most resistant beta-lactams.



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