

The product

LACTAMATOR™ 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™** efficiently inactivates penicillins, cephalosporins of first, second, third, fourth, fifth generation and penems.

Formulation and pack size

Freeze dried LACTAMATOR™ is available in the following pack size:

- cod. LCT-5: pack size of 10 vials each of which contains > 50 IU of cephalosporinase activity/vial and > 500 IU of penicillinase activity/vial
- cod. LCT-20: pack size of 1 vial containing > 2 KIU of cephalosporinase activity/vial > 20 KIU of penicillinase activity/vial

Sterile liquid ready to use LACTAMATOR™ is available in the following pack size:

- cod. LCT-LQS-10: pack of 5 x 10 ml vials each of which contains > 100 IU of cephalosporinase activity/vial and > 1000 IU of penicillinase activity/vial

1 IU is defined as the amount of enzyme needed to hydrolyze 1 μ mole of Penicillin G (Penicillinase) or 1 μ mole of Cephalosporin C (Cephalosporinase) per minute at 25°C and pH 7.0

1 IU of Penicillinase corresponds to 600 Levy Units

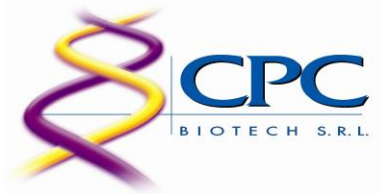
Application

LACTAMATOR™ is a product specifically designed for the inactivation of a broad range of beta-lactams antibiotics, thus find its application in beta-lactams sterility testing (either environmental and antibiotics sterility testing). **LACTAMATOR™** can be used for the inactivation of beta-lactams from blood or tissue sample prior to routine microbiological examination. Due to its very broad specificity range **LACTAMATOR™** can also be used in the assessment of the susceptibility of new beta-lactams antibiotics to inactivation by ESB lactamases.

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Usage

Freeze dried formulation

cod. LCT-5: reconstitute each vial with 5 ml of purified water obtaining a solution having > 10 IU/ml of cephalosporinase activity and > 100 IU of penicillinase activity.

cod. LCT-20: reconstitute the vial with 20 ml of purified water obtaining a solution having > 100 IU/ml of cephalosporinase activity and > 1 IKU of penicillinase activity

After reconstitution sterile filter the solution using a suitable device. Add an appropriate amount of enzyme solution to the test sample. The amount of **LACTAMATOR™** to be added to the test sample should be determined and set-up case by case depending on the application, concentration of antibiotic that should be inactivated, and depending on the specific beta-lactam that should be inactivated.

Sterile liquid ready to use formulation (cod. LCT-LQS-10)

Sterile liquid **LACTAMATOR™** is an optimized ready to use solution that can be directly added to the test samples. The amount of liquid sterile **LACTAMATOR™** to be added to the test sample should be determined and set-up case by case depending on the application, concentration of antibiotic that should be inactivated, and depending on the specific beta-lactam that should be inactivated.

Stability of Reagents

Freeze dried formulation

Freeze dried **LACTAMATOR™** has a stability of three years from manufacturing date. After reconstitution and sterile filtration, the solution can be stored at + 2°C/+8°C for at least two months without losing activity.

Sterile liquid ready to use formulation (cod. LCT-LQS-10)

Sterile liquid **LACTAMATOR™** has a stability of one year from manufacturing date. The product should be stored at + 2°C/+8°C.