

## Certificate of Analysis

**Product name: LACTAMATOR™**

**Product code: # LCT-Bulk MP**

**Batch: 019.MP.00122**

**Mfg Date: January 2022**

Tests	Specifications	Results	Comment
Cephalosporinase Specific Activity (IU/mg of powder)	> 40	<b>64.24</b>	Passed
Penicillinase Specific Activity (IU/mg of powder) <sup>1</sup>	> 400	<b>887.59</b>	Passed
Lipase activity (U Lipase/KU Cephalosporinase)	< 0.0040	<b>0.0000</b>	Passed

**Unit definition**

-One Cephalosporinase International Unit of activity is defined as the amount of enzyme that catalyze the hydrolysis of 1.0 micromole of cephalosporin C per minute at 25 °C at pH 7.0.

-One Penicillinase International Unit of activity is defined as the amount of enzyme that catalyze the hydrolysis of 1.0 micromole of benzylpenicillin per minute at 25 °C at pH 7.0

<sup>1</sup> One International Unit corresponds approximately to 600 Levy Units or 75 Pollock Units.

**Thermal stability Test (7 days at 44°C)**

Tests	Specifications (%)	Results (%)	Comment
Thermal stability Cephalosporinase	100 ±15	99	Passed
Thermal stability Penicillinase	100 ±15	98	Passed

**Storage**

The enzyme is supplied as lyophilized formulation and should be stored between -25 °C and +8 °C.

**Appearance:** Yellowish powder.

The product does not contain animal derived components or additives

**Exp. Date: January 2025**

Quality Assurance

Rosaria Cassese

