



## **Certificate of Analysis**

Product name: LACTAMATOR™ Product code: # LCT-Bulk MP

Batch: 019.MP.00423

Mfg Date: November 2023

Tests	Specifications	Results	Comment
Cephalosporinase Specific Activity (IU/mg of powder)	> 40	75	Passed
Penicillinase Specific Activity (IU/mg of powder) <sup>1</sup>	> 400	868	Passed
Lipase activity (U Lipase/KU Cephalosporinase)	< 0.0040	0.0000	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

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

	Specifications	Results	Comment
Tests	(%)	(%)	Comment
Thermal stability Cephalosporinase	100 ±15	100	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: November 2026

Quality Assurance Rosaria Cassese

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CPC BIOTECH S.r.l.

Sede Legale e Amministrativa/Registered and account office:

Via L. Galvani, 1

20875 Burago di Molgora (MB) - Italia

Tel. +39 039 6898029 Fax. +39 039 6899774 Partita IVA 00751490962 Codice Fiscale 03447450150

R.E.A.1074257

Registro Imprese di Monza e Brianza

Cap. Soc. € 114.000,00 i.v.

www.cpcbiotech.it

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