

## Certificate of Analysis

**Product name: LACTAMATOR™**

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

**Batch: 019.MP.00123**

**Mfg Date: March 2023**

Tests	Specifications	Results	Comment
Cephalosporinase Specific Activity (IU/mg of powder)	> 40	<b>73</b>	Passed
Penicillinase Specific Acitivity (IU/mg of powder) <sup>1</sup>	> 400	<b>919</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	95	Passed
Thermal stability Penicillinase	100 ±15	93	Passed

**Storage**

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

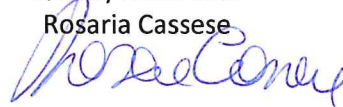
**Appearance:** Yellowish powder.

The product does not contain animal derived components or additives

**Exp. Date: March 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.cpcbitech.it