



Certificate of Analysis

Product name: LACTAMATOR™

Product code: # LCT-Bulk MP

Batch: 019.MP.00322

Mfg Date: December 2022

Tests	Specifications	Results	Comment
Cephalosporinase Specific Activity (IU/mg of powder)	> 40	73.18	Passed
Penicillinase Specific Activity (IU/mg of powder) ¹	> 400	1065.00	Passed
Lipase activity (U Lipase/KU Cephalosporinase)	< 0.0040	0.0002	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

¹ 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	101	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: December 2025

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