

Certificate of Analysis

Product name: LACTAMATOR™

Product code: # LCT-Bulk

Batch: 019.B.00124

Mfg Date: February 2024

Tests	Specifications	Results	Comment
Cephalosporinase Specific Activity (IU/mg of powder)	> 40	82	Passed
Penicillinase Specific Activity (IU/mg of powder) ¹	> 400	905	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

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	98	Passed
Thermal stability Penicillinase	100 ±15	96	Passed

Storage

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

Appearance: white powder.

The product does not contain animal derived components or additives.

Exp. Date: February 2027

Quality Assurance

Rosaria Cassese

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