

Quality Assurance Certificate

Description

Product Name:	LactaZyme® LOXLs
Article Code / Grade:	LZ-LOX-Ls
Batch No.:	Add result.
Quality Release Date:	YYYY-MM-DD
Description:	Flavin dependent Lactate Oxidase that catalyses the conversion of L-lactate to pyruvate under the concurrent production of peroxide.
Formulation:	Add formulation
Recommended Retesting Date:	Add date In dry state as provided and stored at 4 to 8 °C After reconstitution: 14 days at 4 to 8 °C

Intended Use

This material is intended for use in analytical procedures for the determination of L-lactate.

Results

Test Parameter ^[1]	Specification	Result
Appearance [color]	Yellow	Add result
Appearance [form]	Powder	Add result
Purity by SDS-PAGE [Band %]	≥ 90 %	Add result
Predominant band [kDa]	~ 39 KDa	Add result
Specific activity [U/mg powder]	> 60 U/mg U/mg powder	Add result
Thermal stability (T ₅₀) [°C]; after 30 min. storage at given temperature	70 ± 2 °C	Add result
Accelerated Shelf-life; in formulation defined above for given time and temperature		
Treatment time [time], temperature [°C]	14 days, 40 °C	
Relative activity after treatment [%]	≥ 75 %	Add result

^[1] Details on analytical methods available on request.

DirectSens GmbH

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www.directsens.com

Board of Directors:

Dr. Christoph Sygmond (CEO)
Dr. Roman Kittl (COO)

Reg. No.: Amtsgericht Wien FN 397944m

VAT Reg. No.: ATU 67985601

Compliance Statement

Manufactured by DirectSens GmbH, Austria. DirectSens certifies that this batch has been tested and approved in accordance with internal Quality Management System. This batch fulfills our specifications at shipping time.

April 15, 2025

Sign. Dr. Dipl.-Ing. Alfons Felice (CTO)

Enzyme Production, DirectSens GmbH

Remarks: Present QAC is printed electronically and therefore valid in absence of a signature.

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