

## Certificate of Analysis

### LONG<sup>®</sup>R<sup>3</sup>IGF-I Freeze-Dried Product (FD)

(LONG is a trademark of Repligen Corp).

Repligen Sweden AB product name: LONG<sup>®</sup>R<sup>3</sup>IGF-I Freeze-dried Product (FD)

Article number: 10-1010-50R

Batch number:

Date of filling (MMM YYYY):

Re-test date (MMM YYYY):

Storage conditions: 2 – 8 °C

Packaging: Glass-vials type 1, 50 mL, butyl stoppers

Quantity: 50 mg/vial

The product is manufactured in accordance with the manufacturing formula for LONG<sup>®</sup>R<sup>3</sup>IGF-I (MF-00350) and Repligen Sweden AB Quality Policy (POL-00361).  
 Site of Manufacturing: Repligen Sweden AB, Box 965, SE-220 09 Lund, Sweden

Dried from 0.1 M acetic acid: under dry N<sub>2</sub> at slight vacuum.

Category	Test Method	Limit	Result
Appearance	Visual inspection	White/creamy crystalline deposit	
Identity (A)	Mass Spectrometry - Molecular weight	9108 – 9112 Da	
Identity (B)	RP-HPLC	Conforms to reference standard by retention time and chromatographic profile	
Biological activity	PathHunter Bioassay Detection Kit	Relative Potency 60 - 140%	
Bacterial Endotoxins	LAL assay	< 0.10 EU/μg	
Purity	SDS-PAGE	≥ 95% single band between 6000 and 14400 Da	

This batch fulfills the specification.

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Place and date

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Name  
QC  
Repligen Sweden AB

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Place and date

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Name  
QA  
Repligen Sweden AB