

# In-house peptide synthesis reduces costs and shortens turnaround times



## Executive Summary

**Ab Biotechnology**, recognized for its high-purity peptides made according to GMP principles, faced significant challenges in controlling quality, costs, and timelines with its outsourced peptide synthesis. By partnering with Gyros Protein Technologies and implementing the PurePep® Chorus synthesizer in a dedicated peptide laboratory, the company successfully internalized its peptide production capabilities.

## Key Outcomes



**Cost Savings:** Transitioning from outsourced synthesis to internal production delivered substantial cost reductions, realizing a ROI within two years.



**Enhanced Quality:** The integration of CFR Part 11 compliant technology ensured GMP-aligned practices, and improved batch consistency.



**Efficiency Gains:** Project timelines were halved, enabling faster delivery and improved client satisfaction.



**Business Growth:** Expanded capabilities allowed AB Biotechnology to broaden service offerings, scale peptide solutions, and strengthen market position.

## Introduction

Ab Biotechnology specializes in delivering biopharmaceutical products, including high-quality peptides made according to the principles of GMP, to small biotech companies and startups. To address growing client demands, Ab Biotechnology sought ways to improve efficiency and quality while reducing costs and maintaining its reputation for excellence.

### The Problem: Outsourced peptide synthesis

Ab Biotechnology's reliance on external peptide synthesis partners presented several challenges

**Quality concerns:**

Ensuring rigorous demand for GMP-compliant starting materials was challenging when relying on third-party suppliers.

**Cost and time pressures:**

Outsourcing peptide synthesis increased costs and delays, affecting their ability to meet customer expectations.

**Limited control:**

The lack of in-house production limited their ability to oversee critical processes and respond flexibly to client needs.

### The Solution: Bringing peptide synthesis in-house

Ab Biotechnology partnered with Gyros Protein Technologies to bring peptide production in-house



**The synthesizer:** The PurePep Chorus was selected for its reliability, flexibility, and ease of use, ensuring high-quality peptide synthesis in accordance with GMP principles.



**The infrastructure:** A state-of-the-art peptide lab was established, equipped with electrical systems, and nitrogen supply to support the new technology.

## Results

Key outcomes from internalizing peptide production with PurePep Chorus included:

### Cost savings and ROI

# 2 yrs

Return of investment (ROI) timeline

- Ab Biotechnology significantly reduced the outsourcing costs
- Investment in the PurePep Chorus synthesizer paid off within two years

### Enhanced quality and efficiency

# 50%

Shorter turnaround times

- High-quality peptide synthesis was achieved following GMP principles
- Ab Biotechnology halved project turnaround times

### Business growth and new opportunities

The advantages of internal synthesis using the PurePep Chorus resulted in business growth and new opportunities, including:



**New products:** The development of a catalog of unique peptides, tackling complex challenges like solubility and purification



**More capabilities:** The increased capacity enabled expansion of services to new and existing clients, further strengthening the market position



**Team expansion:** With increased customer demand, Ab Biotechnology expanded its peptide synthesis team



"Gyros Protein Technologies facilitated off-site trials, offered tailored solutions for technical hurdles, and provided exceptional training that made the integration process smooth and successful."

**Tam Cameron, CEO of Ab Biotechnology**

## Summary

- By internalizing peptide production with the PurePep Chorus, Ab Biotechnology increased productivity, reliability, and customer value
- Working with Gyros Protein Technologies enabled increased capacity, exceeding market expectations
- Ab Biotechnology's transformation highlights the impact of reliable and innovative technology coupled with tailored support

## Are you ready to transform your business?

Contact us to discover how Gyros Protein Technologies can help your organization achieve its goals.

**[www.gyrosproteintechnologies.com](http://www.gyrosproteintechnologies.com)**



You want to learn more about Ab Biotechnology's services?

Get in contact with Ab Biotechnology on [www.abbiotechnology.com](http://www.abbiotechnology.com)