



# **SYNTHASE BIOTECH**

**CONTRACT R&D AND  
MANUFACTURING INFORMATION**



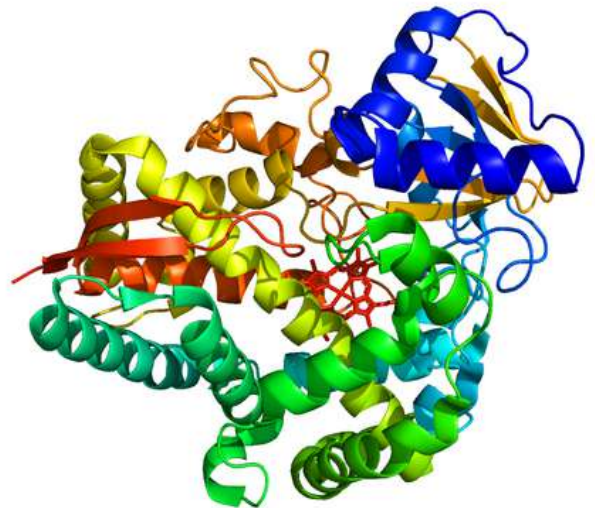
# SYNTHASE BIOTECH

Synthase Biotech was established in 2015 as a platform technology company focused on the industrial potential of enzymes.

Our capabilities and technology are centered around GMO clone development, fermentation, extraction and purification of complex proteins, and a range of quality control analyses.

These applications traverse the biotech, agritech, cosmetics, food processing and biomedical sectors.

Take advantage of our highly skilled team and advanced production technologies for your protein production needs.



*"Take advantage of our highly skilled team and advanced production technologies for your protein production needs."*

We are a NZ owned and operated company, located in the technology hub of the Ruakura Research Centre in Hamilton. We have close connections with many local organisations like The University of Waikato and AgResearch. We have developed a broad understanding of R&D and manufacturing processes, which can be applied to a range of customer requirements.



# OUR CAPABILITIES

- **GMO Clone development and testing in a range of host organisms**
- **Shake Flask and Fermentation capabilities, scalable from 50ml up to 10L**
- **Lab scale Homogenisation and Centrifugation**
- **Automated Chromatography purification system** **NGC**
- **Formulation and Sterile Filtration of final bulk product**
- **Quality control and functionality testing of products**

Synthase has a team of highly skilled technologists and scientists who have been involved in the development of bioprocessing methods for the production of a variety of products based on fermentation technology, various extraction procedures, and extensive chromatography purification methods.

Our technical team specialise in complex bioprocessing techniques and can develop and manufacture new products from scratch or refine and scale-up established processes.

*"Our technical team specialise in complex bioprocessing techniques."*





## WHAT CAN WE DO?

- Recombinant Protein and Enzyme production with Characterisation at advanced Laboratory Scale.
- Established models for production in Yeast and *E.coli*
- Full production pipeline: Design, Expression, Homogenization, Purification, Formulation and Analysis.
- R&D expertise for functional testing via Cell Culture, Bioassay Development, Protein Characterisation.
- All work is conducted with required regulatory approvals for GMO and Risk Biological goods handling - MPI Approved Transitional and Containment Facility.
- Controlled Documents and Reports produced according to our Quality Management System based on GMP principals.



## KEY CONTACTS

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**CONTACT ONE OF OUR TEAM TO FIND OUT HOW WE  
CAN ASSIST WITH YOUR PROTEIN PRODUCTION  
NEEDS.**