

Introduction

Fungi can take up different forms during fermentation. This can alter the process, which could lead to different enzyme activity.

This thesis focuses on the morphology development of fungi in two products. Moreover, correlation between the change of morphology and the enzyme activity for both products.

Methods

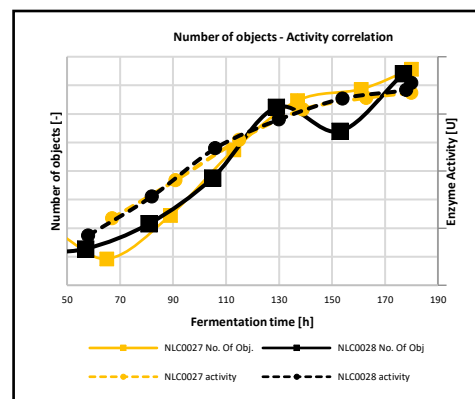
The oCelloScope is a cutting-edge technology to monitor objects in the fermentation broth. This microscope examines the samples by making visual representation. With an advanced algorithm, the software is capable of identifying various characteristics of the objects.



Outcome

The morphological change of fungi was correlated to the enzyme activity and analytical measurements.

No correlation was found between the morphology and enzyme activity. However, some discoveries were found that could be useful for further testing.



Perspectives

It was a great pleasure to be a Helix Lab fellow. I learnt a lot about the industries of Kalundborg. It made me to realize my career ambitions.

I was able to expand my career network, and met with people I can call friends.

In overall, I gained a lot from the program in every aspect.