# **Yeast Catalase Tests**

## Introduction

To see the effect of MC on catalse activty in yeast.

#### **Materials**

- > Yeast + growth medium (YPD)
- > Triton-X 100
- > MC solutions
- > H2O2
- Camera

### Procedure

#### Catalase test

- 1. Make multiple liquid cultures of yeast cells and grow them overnight on shaking (230rpm) in 30 °C
- 2. Spin the cells down and discard supernatant, resuspend cells in 5 ml of physiological saline and measure (and mark down) OD600. Be sure that there is more than 1,8\*10^7 cells in the solution meaning OD has to be >1. When measuring OD do a dilution so that the value you get is between 0,1-0,8, and calculate the real OD of original sample.
- 3. Pipette 0,5 ml of cell/saline solution into each glass tube, add 0,5 ml of MC solution and mix properly -> leave into room temperature for one hour!
- 4. Add 0,5 ml of 30 % H2O2 and 0,2 ml of 1 % TritonX-100 solutions.
- 5. Wait 5 minutes and measure the foam layer