24. MYSTERIOUS CATALASE

Team Croatia
Opponent: Grgur Premec
An enzyme called catalase influences on the rate of decomposition of hydrogen peroxide. Make tests to identify catalase-negative organisms and materials.
THEORY

Pros:
- Aim of the experiment stated
- Catalase enzyme explained
- Chemical formula stated

Cons:
- Some parameters not considered (temp, pH)
EXPERIMENT

Pros:

● 3 different experiments
● Could’ve tested the sample surface area

Cons:

● No quantitative data
RESULTS AND CONCLUSION

Pros:

- Well defined conclusion for all experiments

Cons:

- Little data analysis
- Conclusion doesn’t agree with previous slides
POINTS FOR DISCUSSION

• What would be the influence of temperature on the enzyme activity?
• How would the concentration of enzyme and the organic substance affect the reaction (for example speed)?
• What is the common feature of all catalase positive organisms?
THANK YOU!

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