

5. DISINFECTANTS

Team Croatia
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PROBLEM TEXT

Prepare sterile culture dishes and **investigate the growth** of door handle **bacteria** and other common microorganisms. Investigate how various **disinfectants**, such as antibacterial soap, **affect the bacteria**.

The problem -> not solved !

THE SOLUTION - THEORY

Pros:

- explanation of the problem and tasks to be solved

Cons:

- no theory
 - what is bacteria or media
 - disinfection
 - what are disinfectants, what type of disinfectant exists and what is their effect on bacteria
 - what is disinfection
- no hypothesis

had **no link** of theory and results!

THE SOLUTION - EXPERIMENT

Cons:

Pros:

- different surfaces

- did not explain **the type of bacteria** they grew
- no volume of disinfectant
- did not explain how did they **sterilize the nutrient medium**
- **measuring process explanation lacking**
- did not say what disinfectant they used
- did not explain how did they **count the colonies**
- only **one antiseptic**
- not clear **what surfaces** they used

THE SOLUTION - RESULTS AND CONCLUSION

Pros:
identification of
microorganism

BUT no explanation how
its classified

Cons:

- **No graphs !**
- **No quantitative** analysis !
only showed pictures
- showed types of fungi (yeast and fungi) **not bacteria**
- **no significant scientific conclusion!**

POINTS FOR DISCUSSION

- Different antiseptics
- Concentration, type of alcohol and its effect on microorganisms
- Quantitative?
- Control?
- Different types of culture mediums?
- Repetitions

THANK YOU!

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