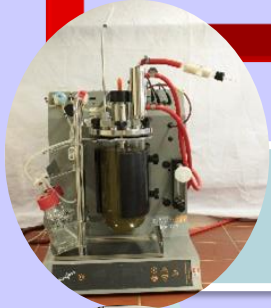


Overview of the experiment



1. Fermentation



2. Quantitative determination of biogas

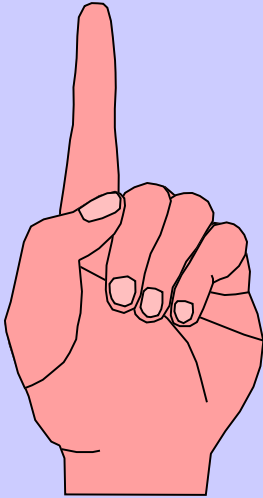


3. Qualitative determination of biogas



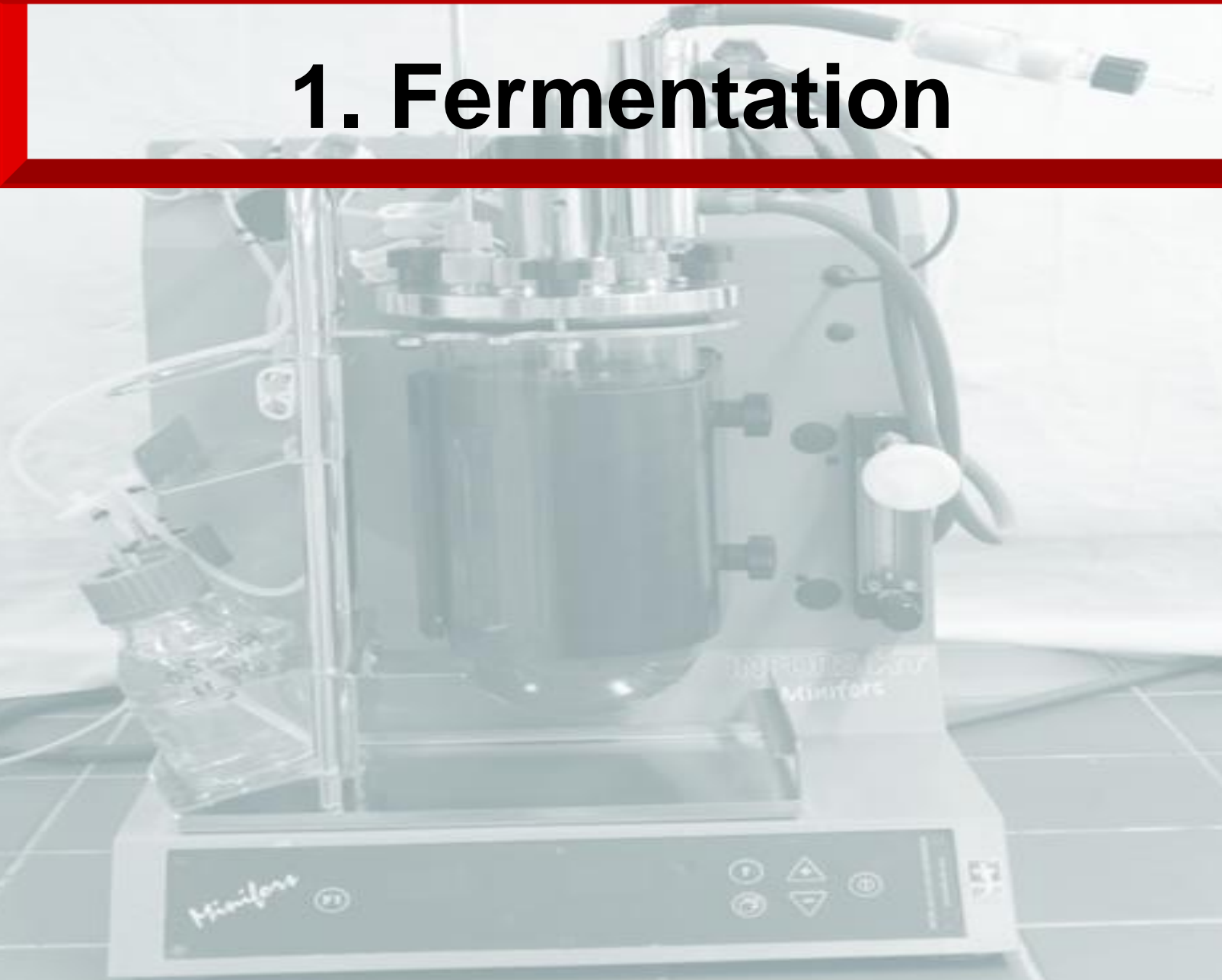
4. Determination of glucose

Safety note

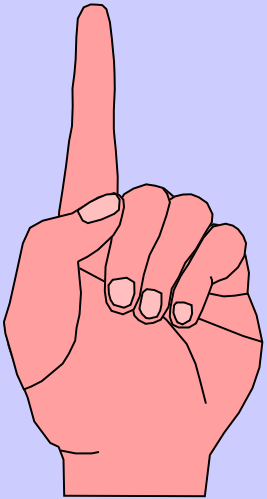


- In this experiment you work with living cultures and flammable gases
 - **Wear a labcoat, gloves and disinfect your hands after the experiment!**

1. Fermentation



Note



Attention!

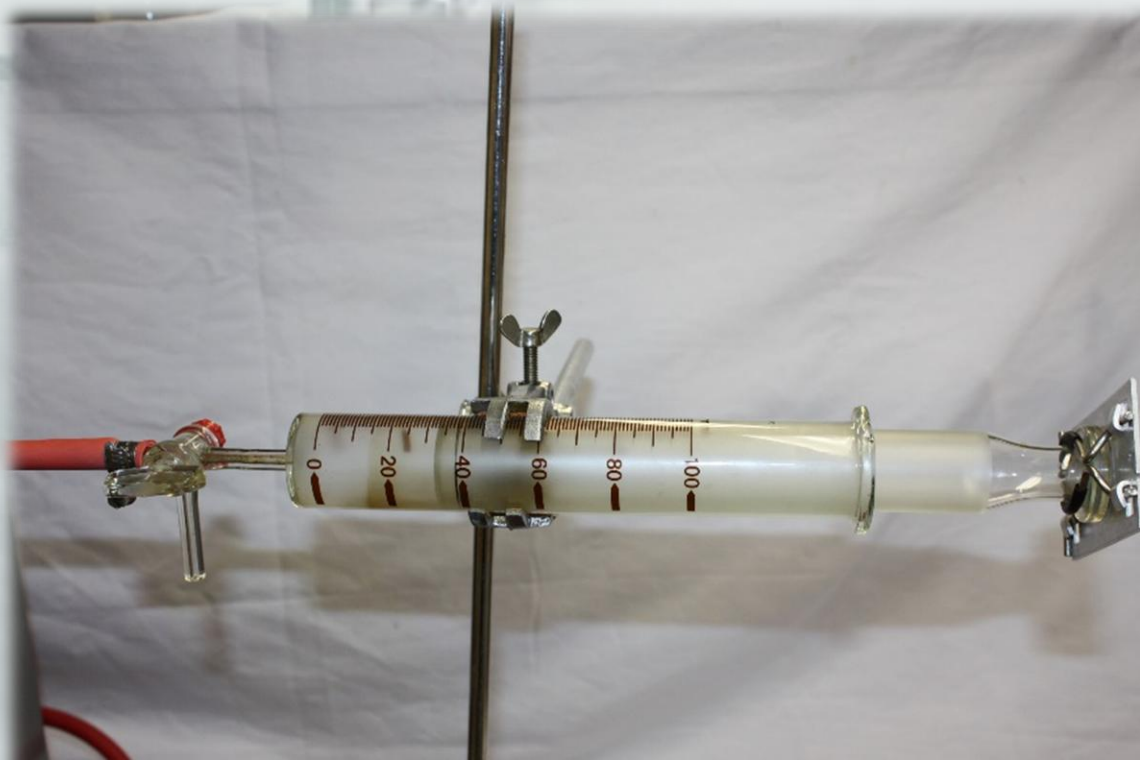
The biogas production only takes place under anaerobic conditions, that means the fermenter has to be sealed gas-proof!



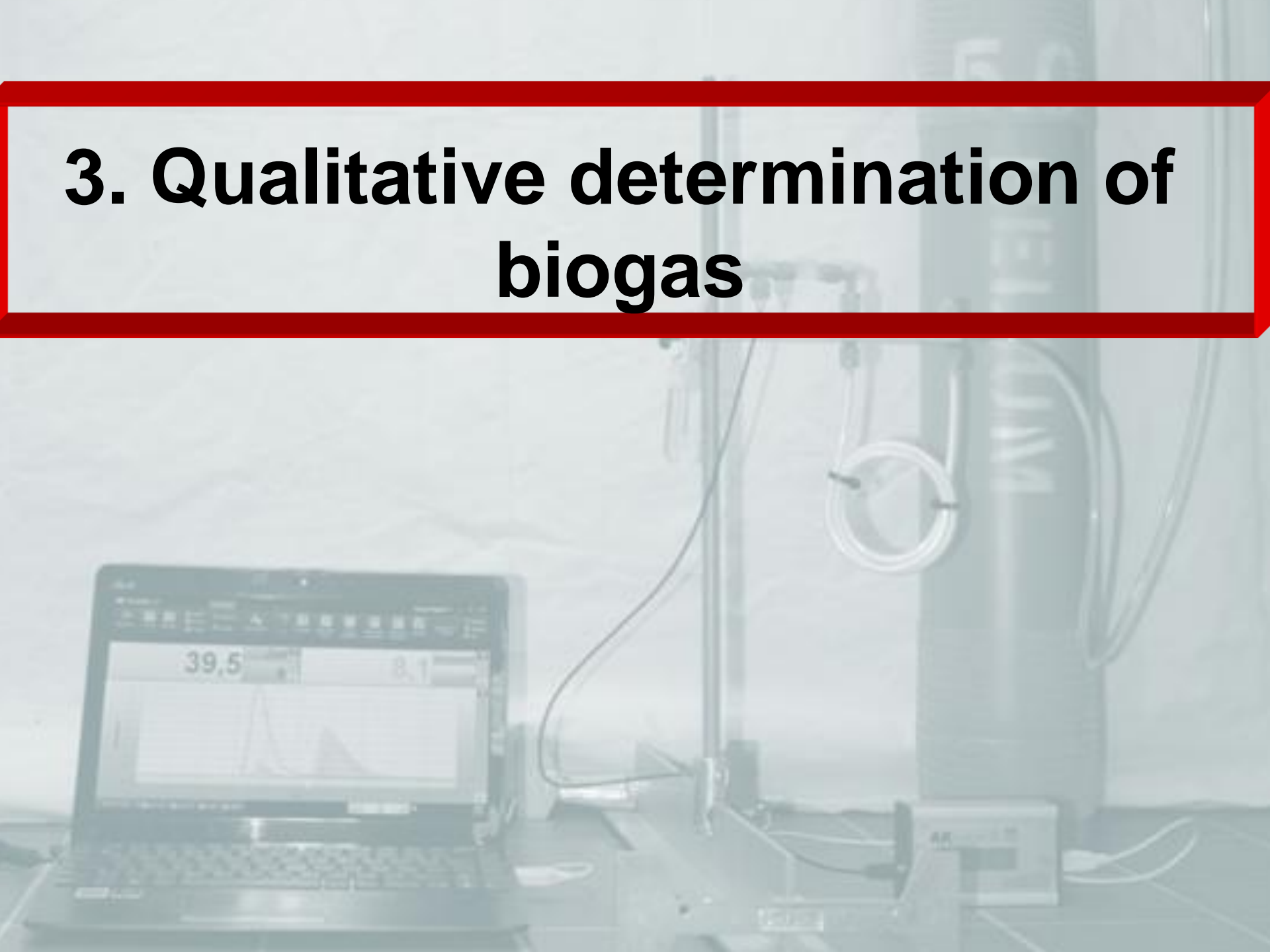
2. Quantitative determination of biogas



2. Quantitative determination of biogas with a gas syringe

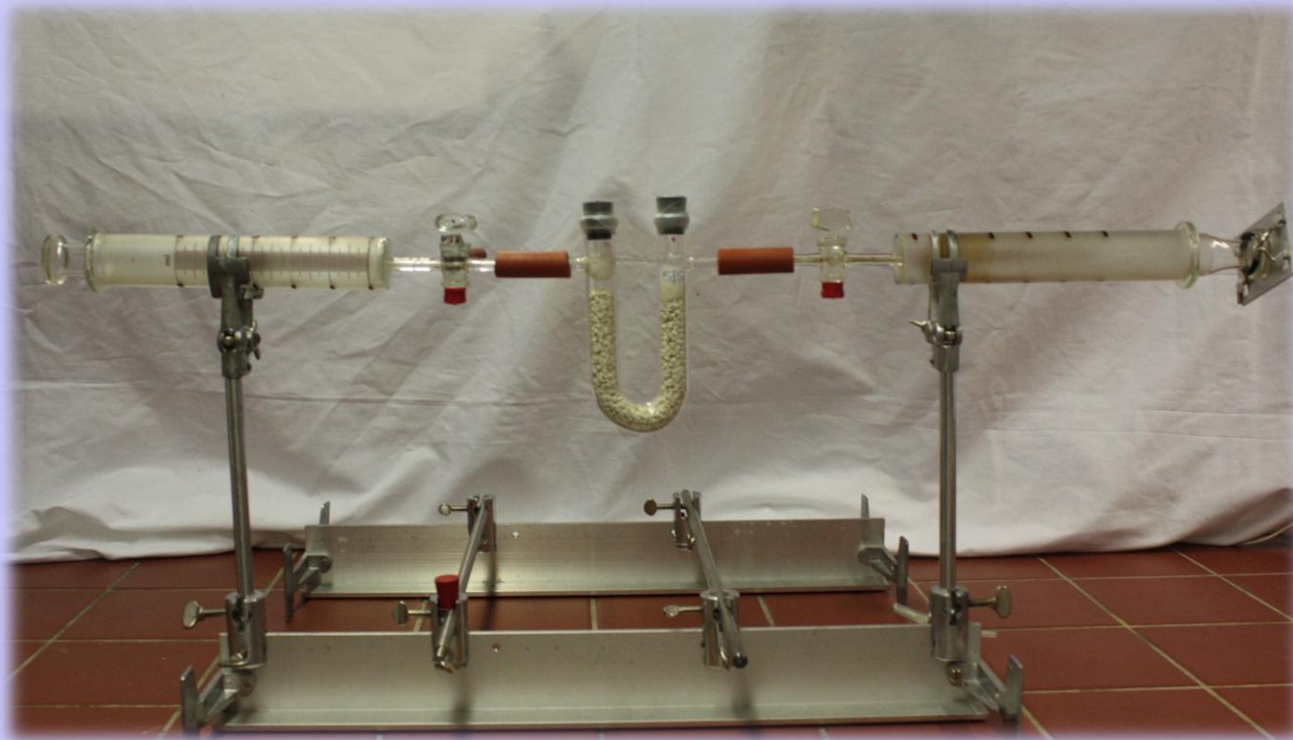


3. Qualitative determination of biogas



3. Qualitative determination of biogas

- By a chemical reaction which binds CO₂



3. Qualitative determination of biogas

- Gas chromatography



4. Determination of glucose

4.1 Control

- Glucose standard will be measured in the photometer



4. Determination of glucose

4.2 Sample

- the substrate from the fermenter will be measured in the photometer

