

field

material

question

I need to pipet 10 mL in order to dilute a solution in a volumetric flask. Is this pipet appropriated ?



Volumetric flask

answer

No because it's a graduated pipet.

field
experiment
question
What's the color of a Gram negative bacteria if you forget to add safranine or fuschine (the last step) ?
answer
The bacteria has no color / it is transparent.

field
Scientists
question
Explain the principle of pasteurisation.
answer
The product is <u>heated</u> to kill or inactivate <u>pathogenic</u> micro-organisms.

field

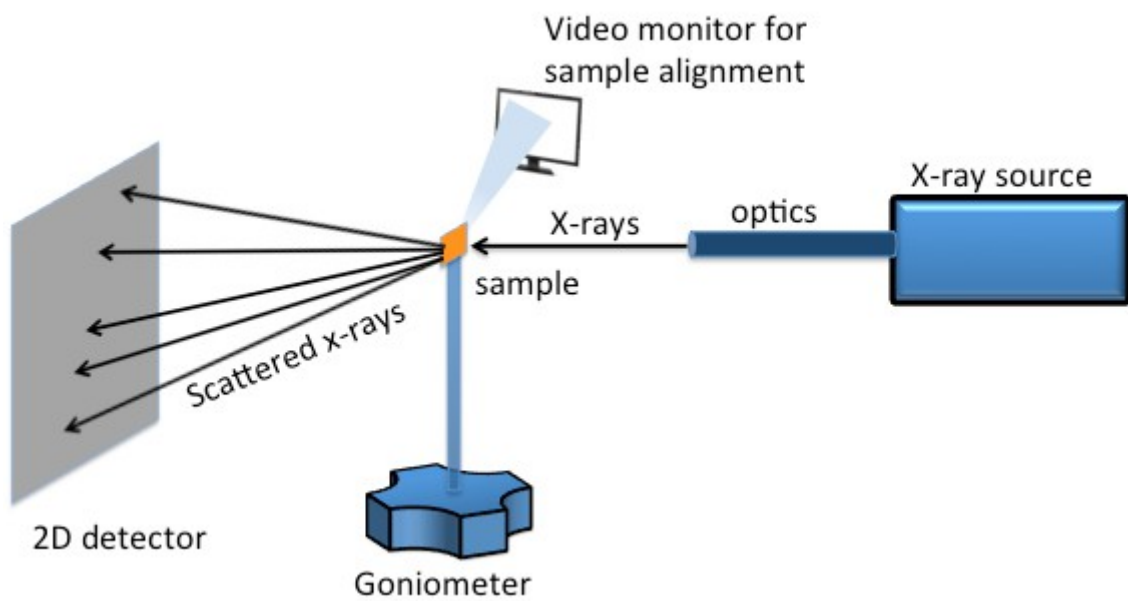
Scientists

question

Thanks to which technique has DNA structure been discovered ?

answer

X-rays diffraction.



field
material
question
Read the volume




field
experiment
Question
You have a solution of glucose $C_m = 4\text{g/L}$ that you dilute to obtain a 1g/L solution. Calculate "d".
answer
$D = 1/4$.

field

Safety

question

Among these equipments, is there one which protects the manipulator against an infection by micro-organisms ?



Dispenser



bunsen burner



safety glasses

answer

No : safety glasses and dispensers protect the technician against chemical hazards. The bunsen burner prevents the contamination of the sample, Petri dish, etc. but does not protect the technician.

field

Material

question

Among these equipments, which one(s) can be used to measure a volume ?



Dispenser



graduated cylinder



beaker



Volumetric pipet

answer

All of them except the beaker

field

Material

question

Among these equipments, which one is the most precise ?



Dispenser



graduated cylinder



beaker



Volumetric pipet

answer

The volumetric pipet

field

Safety

question

Among these equipment, which one(s) is/are considered as collective protection equipment(s) ?



bunsen burner



dispenser



gloves

answer

The dispenser

field

Experiment

question

How much of the stock solution do you need to pipette to obtain 100 mL of a solution diluted 5 times ?



Stock solution



final solution $d = 1/5$

answer

20 mL.

field

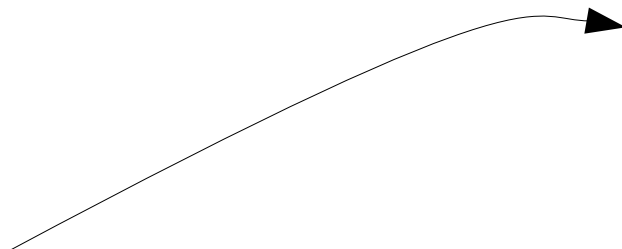
Experiment

question

How much of the stock solution do you need to pipette to obtain 50 mL of a solution diluted 5 times ?



Stock solution



final solution $d = 1/5$

answer

10 mL.

field
experiment
question
<p>A Gram staining should be observed with the microscope et a magnification of 100.</p> <p>Is it right or wrong ?</p>
answer
<p>It's wrong. 100 is the magnification of the objective. We also hase to consider the magnification of the ocular which is 10. A Gram stainig should be observed at a maginification of 1000.</p>

field
safety
question
What do you have to do between getting into the lab and sitting at your bench ?
answer
Put away your personal items in the closet. Put on / wear your lab coat. Wash your hands