

# Biogen Specific Teaching Material

Cleaning and Disinfection – Basic microbiology





# Questions & Answers

## Cleaning and Disinfection – Basic microbiology

1. Name the five (5) major types of microorganisms.

## Cleaning and Disinfection – Basic microbiology

1. The five major types of microorganisms are bacteria, fungi, viruses, protozoa, and algae.

2. What is the optimal growth temperature of mesophiles?

2. The optimum growth temperature of mesophiles is between 30 and 40°C.

3. Which name is given to the phase where bacterial growth multiplies most rapidly?

3. It is during the 'log' phase that bacterial multiplication is most rapid.



4. How small is one micrometre ( $\mu\text{m}$ ) in millimetres?

4. The micrometer ( $\mu\text{m}$ ) represents one-thousandths of a millimetre.

5. When do endospores begin to form?

5. Endospores form in moments of environmental stress, (e.g. lack of nutrients and moisture needed for growth)

6. Which of these microorganisms requires the least oxygen to survive and grow? Obligate Aerobes, Microaerophiles, Aerotolerant Anaerobes.

6. The microorganism which requires the least amount of oxygen for its survival and growth is the aerotolerant anaerobe.

7. Which type of cell is structurally simpler: Eukaryotic or prokaryotic?

7. The prokaryotic cell is structurally simpler.



8. Name at least three (3) intrinsic factors that affect the survival and growth of microorganisms in food.

8. Possible answers: Nutrient content, moisture content, pH, available oxygen, biological structures and antimicrobial constituent.

9. What process occurs during the death phase of bacterial growth?

9. Cell numbers decrease as growth stops and existing cells die off.

10. Substances with higher water activity (wa) support more microorganisms. (true or false?)

10. True. (Food) substances with higher water activity (wa) support more microorganisms.

11. Most microorganisms are harmful to humans. (true or false?)

11. False. (The vast majority of microorganisms are not harmful to humans.)



12. What does microbiota refers to?

12. Microbiota refers to microorganisms that thrive in any given environment.

13. In food safety, water activity is represented by what symbol?

13. Water activity is shown as 'aw'.

# Thank you for your attention!

## D-SCHULE – Your Language School



**D-SCHULE**  
Domenika Hüsler  
[info@d-schule.ch](mailto:info@d-schule.ch)  
+41 79 730 52 35