

Bio 293 Microbiology

CHAPTER 11 Control of Microbial Growth (summary & study guide)

Points of focus

1. Summarize the major categories of microbial control and its purposes.
 - Purpose of microbial control:
 - Methods of microbial control: sterilization, disinfection, decontamination, sanitization, pasteurization, antisepsis, degerming
2. Evaluate the relative resistance of different groups of infectious agents.
 - Most resistant: endospores, then cysts and sexual fungal spores, then some bacterial species such as *Mycobacterium* and *Pseudomonas*.
 - Least resistant: vegetative cells of many bacteria and fungi
3. Define and differentiate among the major terms for microbial control, citing examples of each.
 - Microbicidal (kill) and micro-biostasis (stop growth).
4. Characterize the parameters of microbial death and describe several factors that influence the rate of death.
 - Death: permanent loss of reproductive capacity
5. Summarize what factors influence the effectiveness of an antimicrobial agent.
 - Factors: # of microorganisms, nature of microbial population (biofilm is more resistant), impurity, pH, temperature, concentration and dosage, solvents, and organic matters, etc.
6. Identify the targets of antimicrobial control agents and explain what effects these agents have.
 - DNA → mutations (e.g. radiation). Protein denaturation and precipitation (e.g. alcohol). Membrane disintegration (e.g. alcohol and detergents). Cell wall.
7. List the major types of physical agents used in controlling microbes.
 - Filtration, radiation (ionizing and non-ionizing), heat, cold.
8. Describe the basic effects of temperature on microbes.
 - Denature and destabilize proteins and disintegrate membrane.
9. Define moist and dry heat and explain their modes of action and relative effectiveness.
 - Moist heat (with humidity and pressure-closed chamber) is most effective than dry heat. Moist heat coagulate and denature proteins. Dry heat denature protein at low temp but burn/oxidize at higher temps.
10. Differentiate between thermal death point and thermal death time and provide examples of their uses.
 - thermal death point (TDP): lowest temp needed to kill microorganisms in 10 min.
 - thermal death time (TDT): shortest time needed to kill microorganisms at a given temperature
11. Describe several moist heat methods and their chief applications for sterilization and disinfection.
 - Autoclaving: heat, moisture, pressure (pressure cooker!).
12. Describe some methods using dry heat and its chief applications.
 - Dry oven and incineration
13. Explain how cold temperatures and desiccation are used in microbial control.
 - Microbial physiology slows at lower temperatures. Desiccation dehydrates cells and prevent ice crystal formation. Temps below -70°C are preserving microorganismal cells.
14. Define radiation and assess the use of irradiation as a method of microbial control.

Microbial Growth Study Guide

Judy Kronenberger



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web feb 2 2011 liquid liquid or solvent extraction is a countercurrent separation process for isolating the constituents of a liquid mixture in its simplest form this involves the extraction of a solute from a binary solution by bringing it into contact with a second immiscible solvent in which the solute is soluble

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web liquid liquid extraction is an important separation method in research and chemical analysis as a commercial process it

is frequently used in the chemical and mining industries and in the downstream recovery of fermentation products antibiotics amino acids steroids

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web in the chemistry lab it is most common to use liquid liquid extraction a process that occurs in a separatory funnel a solution containing dissolved components is placed in the funnel and an immiscible solvent is added resulting in two layers that are shaken together

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web in this work a liquid liquid extraction lle method has been developed to produce liquid pcs via simple mixing and liquid phase separation at room temperature single and two component extractants are used to extract part of the solvent from a diluted colloidal solution which effectively concentrates the colloidal solution without

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web liquid liquid extraction lle also known as solvent extraction and partitioning is a method to separate compounds or metal complexes based on their relative solubilities in two different immiscible liquids usually water polar and an organic solvent non polar

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web 2 2 1 pressurized liquid extraction ple is a solid liquid extraction technique capable of extracting a wide range of organic contaminants from a wide variety of biological matrices 6 ple offers improved extraction efficiency sample throughput and automation 7 ple can be viewed as an extension of supercritical fluid extraction

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web feb 11 2013 summary liquid liquid extraction lle also known as solvent extraction is a typical ternary system in the chemical engineering field which separates chemicals from one solution to another based on the different solubility of the solute chemical in