

Laboratory Exercise 18: Environmental effects on microbial growth

Each microbial species can tolerate a range of environmental condition that affects microbial enzymes, membranes and other components. You will examine the growth of several bacteria in varying pH, salt, and temperature conditions.

Water is essential to all forms of life. It is not only the principal component of cytoplasm, but also an essential source of electrons and hydrogen ions. Organisms, like plants, require water to maintain cellular turgor pressure. Whereas water in prokaryotes requires it to prevent shrinking of the cell resulting in separation of the membrane from the cell wall, a condition called plasmolysis.

Bacteria constitute a diverse group of organisms that have developed many adaptations for survival. For example, some bacteria halophiles grow optimally in NaCl concentrations 3% or higher. Extreme halophiles are organisms with specialized cell membrane and enzymes that require salt concentrations from 15% up to about 25% and will not survive where salinity is lower. Except for a few osmotolerant bacteria, which will grow over a wide range of salinities, most bacteria live where NaCl concentrations are less than 3%.

Bacterial Cultures:

Escherichia coli

Staphylococcus aureus

Bacillus cereus

pH Test Materials:

3 pH 3 tubes

3 pH 7 tubes

3 pH 9 tubes

Procedure:**pH Effects on Microbial Growth**

1. Obtain 3 tubes of pH 3, 7, 9. Label them with the organism's name, and group name. Example: pH 3, 7, 9 tubes will be labeled with *E. coli*.
2. Inoculate the pH broths with the test organisms.
3. Incubate tubes at 37°C for 48 hours.

Second Lab Day:

1. Record the growth you observe as - (no growth), +, ++, +++, and ++++ (lots of growth).

Bacterial Cultures:

Escherichia coli

Staphylococcus aureus

Bacillus cereus

Microbiology Lab Manual Answers

Puja Mehta



Microbiology Lab Manual Answers:

The Top Books of the Year Microbiology Lab Manual Answers The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have captivated audiences this year. Microbiology Lab Manual Answers : Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Microbiology Lab Manual Answers : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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