

Cell Size and Diffusion Lab – Data Sheet and Observations

15. Did you observe the red, spherical structures "leak" the green dye from the semi-permeable membrane? Why?

Yes, because I saw a greenish color in the beaker of water after 24 hours.

16. Complete Table 1.

Concentration	Surface area (if a length is given, it is cm ²)	Volume (length x width x height in cm ³)	Surface area to the volume ratio (S.A.:V)
10 mm	60	1	60:1
20 mm	240	8	30:1
30 mm	540	27	20:1

17. How many more cells would be required for the 30 mm diameter structure than you calculated for the 10 mm diameter sphere?

27 times more. There is a 27 fold increase in volume, but only a 3 fold increase in surface area.

18. What does this tell you about the need for small cells? Why?

19. Do the red dye molecules "leak" out through the membrane? Explain your answer.

Yes, after 24 hours the solution in the beaker turned greenish, and some cells were dead.

20. List the cellular parts of the cell that are not in contact with the outside.

Nucleus, Golgi, ER.

21. What happens to the surface area to volume ratio as cells increase in size?

It decreases. The surface area of a sphere with a given volume is always less than the surface area of a smaller sphere with the same volume.

Cell Size Lab Question Answers

Cathy Box



Cell Size Lab Question Answers:

Formative Assessment in United States Classrooms Cathy Box, 2018-12-12 This book examines the history of formative assessment in the US and explores its potential for changing the landscape of teaching and learning to meet the needs of twenty first century learners The author uses case studies to illuminate the complexity of teaching and the externally imposed and internally constructed contextual elements that affect assessment decision making In this book Box argues effectively for a renewed vision for teacher professional development that centers around the needs of students in a knowledge economy Finally Box offers an overview of systemic changes that are needed in order for progressive teaching and relevant learning to take place

Lab Manual Science Class 09 Neena Sinha, R.Rangarajan, Rajesh Kumar, These Lab Manuals provide complete information on all the experiments listed in the latest CBSE syllabus The various objectives materials required procedures inferences etc have been given in a step by step manner Carefully framed MCQs and short answers type questions given at the end of the experiments help the students prepare for viva voce

Science Lab Manual Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manual

Clinical Laboratory Science - E-Book Mary Louise Turgeon, 2022-09-14 Selected for Doody's Core Titles 2024 in Laboratory Technology Using a discipline by discipline approach Turgeon's Clinical Laboratory Science Concepts Procedures and Clinical Applications 9th Edition provides a fundamental overview of the concepts procedures and clinical applications essential for working in a clinical laboratory and performing routine clinical lab tests Coverage includes basic laboratory techniques and key topics such as safety phlebotomy quality assessment automation and point of care testing as well as discussion of clinical laboratory specialties Clear straightforward instructions simplify laboratory procedures and are guided by the latest practices and CLSI Clinical and Laboratory Standards Institute standards Written by well known CLS educator Mary Louise Turgeon this edition offers essential guidance and recommendations for today's laboratory testing methods and clinical applications Broad scope of coverage makes this text an ideal companion for clinical laboratory science programs at various levels including CLS MT CLT MLT medical laboratory assistant and medical assisting and reflects the taxonomy levels of the CLS MT and CLT MLT exams Detailed procedure guides and procedure worksheets on Evolve and in the ebook familiarize you with the exact steps performed in the lab Vivid full color illustrations depict concepts and applicable images that can be seen under the microscope An extensive number of certification style multiple choice review questions are organized and coordinated under major topical headings at the end of each chapter to help you assess your understanding and identify areas requiring additional study Case studies include critical thinking group discussion questions providing the opportunity to apply content to real life scenarios The newest Entry Level Curriculum Updates for workforce entry published by the American Society for Clinical Laboratory Science ASCLS and the American Society for Clinical Pathology ASCP Board of Certification Exam Content Outlines serve as content reference sources Convenient glossary makes it easy to look up definitions without having

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Nanoscale Science M. Gail Jones, 2007 Using guided inquiry with open ended exploration where possible the book's 20 investigations teach students about the unique properties and behavior of materials at the nanoscale one billionth of the size of a meter

The Fundamentals of Scientific Research Marcy A. Kelly, 2015-09-15 The Fundamentals of Scientific Research An Introductory Laboratory Manual is a laboratory manual geared towards first semester undergraduates enrolled in general biology courses focusing on cell biology This laboratory curriculum centers on studying a single organism throughout the entire semester *Serratia marcescens* or *S. marcescens* a bacterium unique in its production of the red pigment prodigiosin The manual separates the laboratory course into two separate modules The first module familiarizes students with the organism and lab equipment by performing growth curves Lowry protein assays quantifying prodigiosin and ATP production and by performing complementation studies to understand the biochemical pathway responsible for prodigiosin production Students learn to use Microsoft Excel to prepare and present data in graphical format and how to calculate their data into meaningful numbers that can be compared across experiments The second module requires that the students employ UV mutagenesis to generate hyper pigmented mutants of *S. marcescens* for further characterization Students use experimental data and protocols learned in the first module to help them develop their own hypotheses experimental protocols and to analyze their own data Before each lab students are required to answer questions designed to probe their understanding of required pre laboratory reading materials Questions also guide the students through the development of hypotheses and predictions Following each laboratory students then answer a series of post laboratory questions to guide them through the presentation and analysis of their data and how to place their data into the context of primary literature Students are also asked to review their initial hypotheses and predictions to determine if their conclusions are supportive A formal laboratory report is also to be completed after each module in a format similar to that of primary scientific literature The Fundamentals of Scientific Research An Introductory Laboratory Manual is an invaluable resource to undergraduates majoring in the life sciences

Scientifica David Sang, Peter Ellis, Derek McMonagle, 2004 Bring your science lessons to life with Scientifica Providing just the right proportion of reading versus doing these engaging resources are differentiated to support and challenge pupils of varying abilities

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Lab Manual Biology Class 11 Rajesh Kumar, Lab Manual

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