

Experiment 7
The Solution is Dilution
REPORT

1. Fill in this table using the instructions in the lab manual and from video:

Test Tube #	mL Stock Solution	mL DI water	Total Volume of solution (mL)	Molarity of solution, M
1	10.0	0.0		0.20
3	8.0	2.0		0.16
3	6.0	4.0		0.12
4	4.0	6.0		0.08
5	2.0	8.0		0.04

2. Complete the "Student analysis of colorimeter data and unknown" page of this experiment.

What is the concentration of the unknown solution of nickel(II) chloride? 0.143

Absorbance in video = 0.425

a = εcl

Questions needing solutions:

1. Does the absorbance of a solution depend on the concentration? yes
 (Explain your reasoning.)

2. Use the lab manual to find the wavelength of light absorbed and the color wheel (previous experiment) to fill in the table below.

Solution	Color of light absorbed	Color of solution
$\text{Co}(\text{NO}_3)_2(\text{aq})$		
$\text{NiCl}_2(\text{aq})$		

What is the relationship between the color of light absorbed by the solution and the color of the solution? (Explain below)

3. Suppose 25.00 g of $\text{C}_{12}\text{H}_{22}\text{O}_{11}$ (sucrose) is added to a 50.00 mL volumetric flask. DI water is added to the flask until the total volume of the solution is 50.00 mL. What is the molarity of the resulting solution? answer: _____

4. If 25.00 mL of the resulting solution is diluted with water to a total volume of 150 mL. What is the concentration of the diluted solution? answer: _____
 (Show calculation here)

Dilution Of Solution Lab Report

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A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the authors' names.

Dilution Of Solution Lab Report:

Report of the Dominion Agricultural Bacteriologist Central Experimental Farm (Ottawa, Ont.). Bacteriology Division,1925 *Report of the Dominion Agricultural Bacteriologist* Canada. Experimental Farms. Division of Bacteriology,1925 Methods of Analysis by the U.S. Geological Survey National Water Quality Laboratory Charles J. Patton,Jennifer R. Kryskalla,2003 **Report** Pennsylvania. Department of Health,1908 **Official Documents, Comprising the Department and Other Reports Made to the Governor, Senate and House of Representatives of Pennsylvania** ,1908 **Report of the Dominion Agricultural Bacteriologist** Canada. Department of Agriculture. Division of Bacteriology,1925 **Progress Report of the Dominion Agricultural Bacteriologist, for the Year** Canada. Department of Agriculture. Division of Bacteriology,1925 **Laboratory Methods in Dynamic Electroanalysis** M. Teresa Fernández Abedul,2019-10-13 Laboratory Methods in Dynamic Electroanalysis is a useful guide to introduce analytical chemists and scientists of related disciplines to the world of dynamic electroanalysis using simple and low cost methods The trend toward decentralization of analysis has made this fascinating field one of the fastest growing branches of analytical chemistry As electroanalytical devices have moved from conventional electrochemical cells 10 20 mL to current cells e g 5 50 mL based on different materials such as paper or polymers that integrate thick or thin film electrodes interesting strategies have emerged such as the combination of microfluidic cells and biosensing or nanostructuration of electrodes This book provides detailed easy procedures for dynamic electroanalysis and covers the main trends in electrochemical cells and electrodes including microfluidic electrodes electrochemical detection in microchip electrophoresis nanostructuration of electrodes development of bio enzymatic immuno and DNA assays paper based electrodes interdigitated array electrodes multiplexed analysis and combination with optics Different strategies and techniques amperometric voltammetric and impedimetric are presented in a didactic practice based way and a bibliography provides readers with additional sources of information Provides easy to implement experiments using low cost simple equipment Includes laboratory methodologies that utilize both conventional designs and the latest trends in dynamic electroanalysis Goes beyond the fundamentals covered in other books focusing instead on practical applications of electroanalysis **Bibliography of Scientific and Industrial Reports** ,1947 *Annual report of the Commissioner of Health of the Commonwealth of Pennsylvania. 1907 ,1908* Annual Report of the Commissioner of Health of the Commonwealth of Pennsylvania Pennsylvania. Department of Health,1908 **Practical Chemistry** Kasaye Bahiru Tola,Girma Salale Geleta,2025-03-03 This laboratory manual offers a broad introduction to practical instrumental analysis and quantitative analytical chemistry The practical activities include experiments to determine the quantity of analytes Analytical techniques covered in the book are turbidimetry atomic absorption spectrometry flame emission spectrometry refractometry infrared spectroscopy fluorometry and UV visible spectrophotometry Practical Chemistry in 3 Volumes Volume 1 Practical Chemistry Instrumental Analysis ISBN 978 3 11

157504 9 Volume 2 Practical Chemistry Transition Metals ISBN 978 3 11 157384 7 *Nielsen's Food Analysis Laboratory Manual* B. Pam Ismail, S. Suzanne Nielsen, 2024-06-20 This fourth edition laboratory manual was written to accompany Nielsen's Food Analysis Sixth Edition by the same authors New to this fourth edition of the laboratory manual are three new chapters that complement both the textbook chapters and the laboratory exercises The book again contains four introductory chapters that help prepare students for doing food analysis laboratory exercises The 26 laboratory exercises in the manual cover 24 of the 35 chapters in the textbook Many of the laboratory exercises have multiple sections to cover several methods of analysis for a particular food component or characteristic Most of the laboratory exercises include the following background reading assignment objective principle of method chemicals reagents precautions and waste disposal supplies equipment procedure data and calculations questions and references This laboratory manual is ideal for the laboratory portion of undergraduate courses in food analysis Annual Report of the Commissioner of Health of the Commonwealth of Pennsylvania Pennsylvania. Commissioner of Health, Pennsylvania. Department of Health, 1908 Chemical Abstracts , 1909 *ICES Cooperative Research Report* , 1998 , *Laboratory Procedures for the Medical Office* Tom Palko, Hilda Palko, 1995 **The Ohio Public Health Journal of the Ohio State Board of Health** Ohio. State Board of Health, 1918 **Ohio's health. v. 9, 1918** , 1918

Dilution Of Solution Lab Report Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Dilution Of Solution Lab Report**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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