

Experiment 3A: Sugar Identification Using Polarimetry

Develop a lab procedure to test pentose. For the first part, you will be identifying the unknown sugar given to you by your TA. Then, you will calculate the observed rotation using a polarimeter when using that value. The specific rotation can be calculated. The specific rotation $[\alpha]_D^{25}$ at a temperature t is a fixed property of a pure and a dissolving medium. The observed rotation $[\alpha]_D^{25}$ depends on factors such as the concentration of the sample, its pathlength in grams per millimeter (g), and the length of the cell in decimeters (d). The 100° refers to the temperature in degrees Celsius, and the 10° refers to the wavelength of visible light at 589 nm. Given your specific rotation or calculated path equation (1) below, the specific rotation values below can be compared with your calculated specific rotation to identify your unknown sugar.

$$[\alpha]_D^{25} = \frac{\alpha}{lc}$$

11

Revised 2015
see 1.10.1 and
10.10 for Student
Instructions

Chemical	Specific Rotation $[\alpha]_D^{25}$
D-Glucose	+52.7°
D-Fructose	+92.0°
D-Galactose	+19.0°
D-Idose	+19 to -22°

Sugar Identification Using Polarimetry

SA Adler



Sugar Identification Using Polarimetry:

Whispering the Secrets of Language: An Emotional Quest through **Sugar Identification Using Polarimetry**

In a digitally-driven earth wherever screens reign great and immediate interaction drowns out the subtleties of language, the profound techniques and emotional nuances hidden within phrases frequently go unheard. Yet, located within the pages of **Sugar Identification Using Polarimetry** a interesting literary treasure sporting with raw feelings, lies an exceptional quest waiting to be undertaken. Composed by a talented wordsmith, that enchanting opus attracts readers on an introspective journey, delicately unraveling the veiled truths and profound impact resonating within ab muscles fabric of each and every word. Within the mental depths of this moving evaluation, we will embark upon a honest exploration of the book is core subjects, dissect its charming publishing type, and succumb to the effective resonance it evokes serious within the recesses of readers hearts.

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