

Laboratory Manual in **CLINICAL CHEMISTRY** for Blended Learning



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Manual Of Clinical Chemistry

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Excerpt from Manual of Clinical Chemistry The student should refer to the descriptive part of the text book for the subjects treated of here

The Carbohydrates

- 1 Note the general appearance of the specimens of grape sugar or dextrose dextrin and starch which are passed around
- 2 Put some of each into cold water Starch is insoluble dextrose and dextrin slowly dissolve but more readily in hot water
- 3 Apply Trommer's Test for Dextrose Put a few drops of copper sulphate solution into a test tube then solution of dextrose and then strong sodium hydroxide On adding the NaOH a precipitate is first formed which on adding more redissolves forming a blue solution On boiling this a yellow or red precipitate cuprous hydrate or oxide forms
- 4 Dextrin Add iodine solution to the solution of dextrin and a reddish brown color is produced The color disappears on heating
- 5 Starch a Examine microscopically the scrapings from the surface of a freshly cut potato Note the appearance of the starch grains with their concentric markings See table p 369 b On boiling starch with water an opalescent solution is formed which if strong gelatinizes on cooling c Add iodine solution An intense blue color is produced which disappears on heating and if not heated too long reappears on cooling

N B Prolonged heating drives off the iodine and consequently no blue color returns on cooling

d Conversion into dextrin and dextrose

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