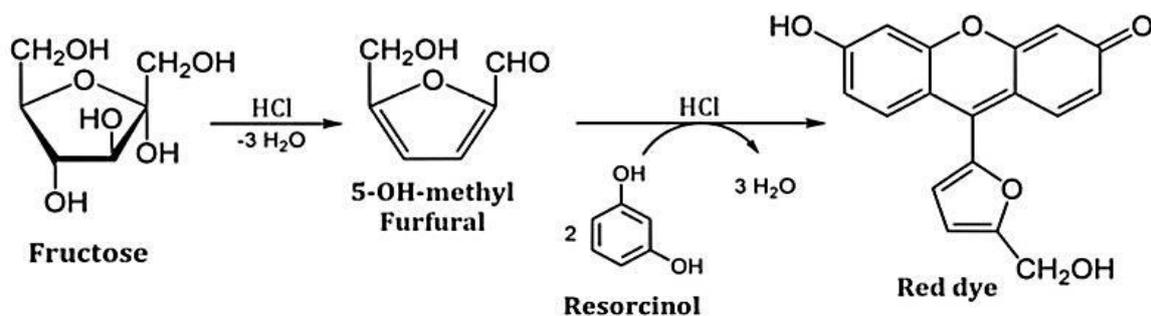


الصيدلة	الكلية
فرع العلوم المختبرية والسريرية	القسم
Biochemistry	المادة باللغة الانجليزية
الكيمياء الحياتية	المادة باللغة العربية
الثالثة	المرحلة الدراسية
م م اسامة حامد عبدالله	اسم التدريسي
<b>Seliwanoff Test</b>	عنوان المحاضرة باللغة الانجليزية
كشف سليوانوف	عنوان المحاضرة باللغة العربية
4	رقم المحاضرة
1. Abousalah, K. and Alnaser, A., 1996, Principles of Practical Biochemistry. 2. Farid Shokry Ataya, 2007, Practical Biochemistry. AlRoshd Publisher, Riyadh, Saudi Arabia. 3. Milio, F. R. and Loffredo, W. M., 1995, Qualitative Testing for Amino Acids and Proteins, Modular Laboratory Program in	المصادر والمراجع



## ➤ Seliwanoff Test

- This test distinguishes ketose monosaccharides like (fructose) from aldose monosaccharides such as (glucose), also disaccharides that give ketone sugars when they hydrolyse (sucrose).
- Seliwanoff reagent consisting of resorcinol compound with hydrochloric acid.
- Ketose sugars differ from aldose sugar in they lose water molecules easily and form hydroxymethylfurfural, which condenses with the Seliwanoff reagent to form a red complex. The solution should not be heated for a long time, otherwise aldehydes will also give a positive result.



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## ➤ Method

➤ To 1mL of 1% sugar sample in a test tube, add 2mL of Seliwanoff reagent, mix gently, and keep in a boiling water bath for 2min.



Sample	Observation	Inference
Sugar sample	Deep red color ppt in case of ketose, and pink color ppt in case of aldose	Ketose only respond

