

# Permeability of Red Blood Cells

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[Redacted]

estimators: [Redacted]

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Submission Due: February 12th 14th, 2019



uOttawa

Faculté des sciences  
Faculty of Science

**BIO1140 Section B2**

Table 1. Mean observed time in seconds for hemolysis to occur in sheep red blood cells in various solutions as well as the standard error associated with the observations. A sample size of  $n=3^a$  was used.

Solution	Hemolysis time (seconds)	
	Arithmetic Mean (seconds)	Standard Error
Distilled Water	<2 <sup>b</sup>	0
Urea 0.3 M	<2 <sup>b</sup>	0
Ethylene glycol 0.3 M	11.93	0.7322
Glycerol 0.3 M	>1200 <sup>c</sup>	0
Sucrose 0.3 M	>1200 <sup>b</sup>	0

<sup>a</sup> Three trials were performed for each solution

<sup>b</sup> Hemolysis occurred instantaneously, thus proper timing was not possible. Therefore the time recorded was an estimate of less than 2 seconds

<sup>c</sup> Hemolysis was not witnessed in the period of 1200 seconds. Therefore the time recorded was an estimate of more than 1200 seconds.

LAB2 MARKING SCHEME - Student [REDACTED] | Corrector: VF

**I- Table**

<b>Caption and footnotes</b>	
Caption above table / footnotes below	0.5 /0.5
Starts by "table 1"	0.5 /0.5
Full title in caption	0.5 /0.5
Abbreviations and footnotes (m, n, SE....)	0.5 /0.5
States that hemolysis time is presented in s	0.5 /0.5
<b>Column heading and Organisation</b>	
Column labels	0.5 /0.5
Column Organisation	0.5 /0.5
<b>Body of the table</b>	
No vertical lines	0.5 /0.5
Solutions sorted by hemolysis time	0.5 /0.5
<b>Presentation &amp; readability</b>	
Sample size indicated (either in caption or body)	0.5 /0.5
Table (and report) presentation, readability	1 /1
Spelling	0.5 /0.5
<b>TOTAL TABLE</b>	<b>6.5 /6.5</b>
<b>Measured data within expected range (0.5 per solution)</b>	<b>2 /2.5</b>
<b>II- Summary &amp; Interpretation</b>	
Factors affecting the rate of penetration	1.75 /2
Explanation of how factors penetrate into cell	2 /2
Spelling and clarity of language	1 /1
<b>TOTAL DISCUSSION</b>	<b>4.75 /5</b>
Technical mark deduction (up to 15%) - see TA for detail	
Other penalty/ies:	
<b>FINAL MARK</b>	<b>13.25 /14</b>