97	2-Exercise 2		姓名:		學號:
1.	Please describe 3 structural features of $\alpha$ -helices and $\beta$ -conformations.				
2.	Please compare the H-bond in $\alpha$ - $\alpha$ -helices and $\beta$ -conformations $\dashv$		•	tions. 請比i	較 H-bond 在
3.	Please compare the structural properties of myoglobin and hemoglobin and explain why is myoglobin is suitable for oxygen storage and hemoglobin is suitable for oxygen transport.				
	比較兩種與氧氣結合的蛋白質:	肌紅素	(myoglobin)	與 <u>血紅素</u>	(hemoglobin):
	(a) 主要功能:				
	(b) 出現的組織或細胞: _				
	(c) 構形(conformation)數目: _				
	(d) 生肽鏈組成數目:				
	(e) 與氧氣結合曲線的形狀:				
	(f) 是否俱有協同作用(coopera	ativity): _			

4. What the Bohr Effect? Please draw the  $O_2$  binding curve of Hb to show this effect.

並說明爲何肌紅素適合氧氣儲存而血紅素適合氧氣運送?