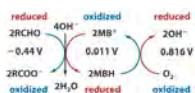
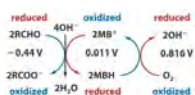


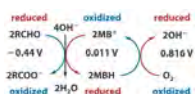
- 1 At pH = 7, E_o' for $O_2|H_2O$ is + 0.816 and for gluconate|glucose it is - 0.44. Can dissolved oxygen oxidize sugar water?



- A Yes
B No
C Further information needed
- 2 At pH = 7, E_o' for $O_2|H_2O$ is + 0.816 and for $MB^+|MBH$ is + 0.011. Can dissolved oxygen oxidize reduced methylene blue, MBH ?

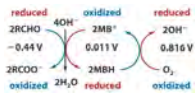


- A Yes
B No
C More information needed
- 3 At pH = 7, E_o' for $MB^+|MBH$ is + 0.011 and for gluconate|glucose it is - 0.44.. Can oxidized methylene blue, MB^+ , oxidize glucose?

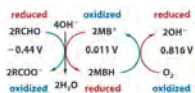


- A Yes
B No
C More information needed

- 4 Based on answers to the previous questions, is $\text{MB} + |\text{MBH}$ required for dissolved oxygen to oxidize glucose?



- A Yes
 B No
 C More information needed.
- 5 In fact, $\text{MB} + |\text{MBH}$ is required for dissolved oxygen to oxidize glucose. Why?



- A ...
 B ...