

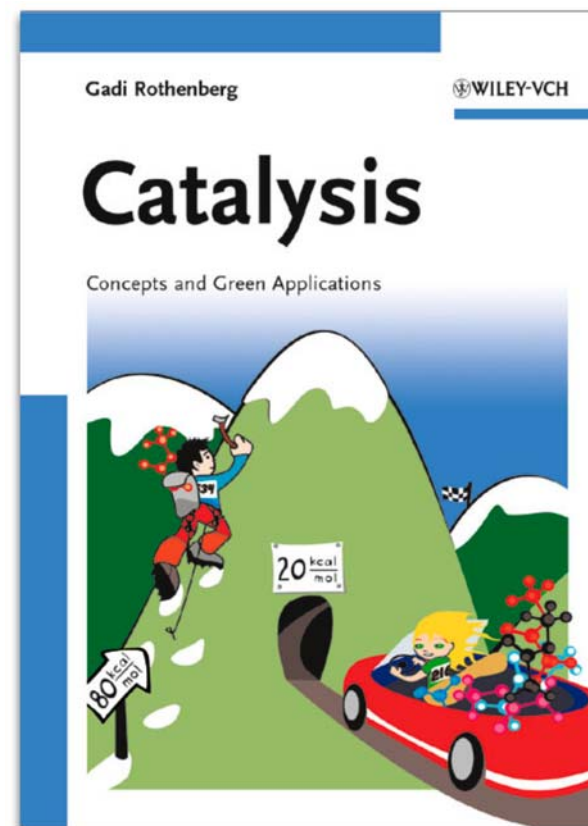
# *Catalysis: Concepts and Green Applications*

## **Lecture slides for Chapter 5: Biocatalysis**

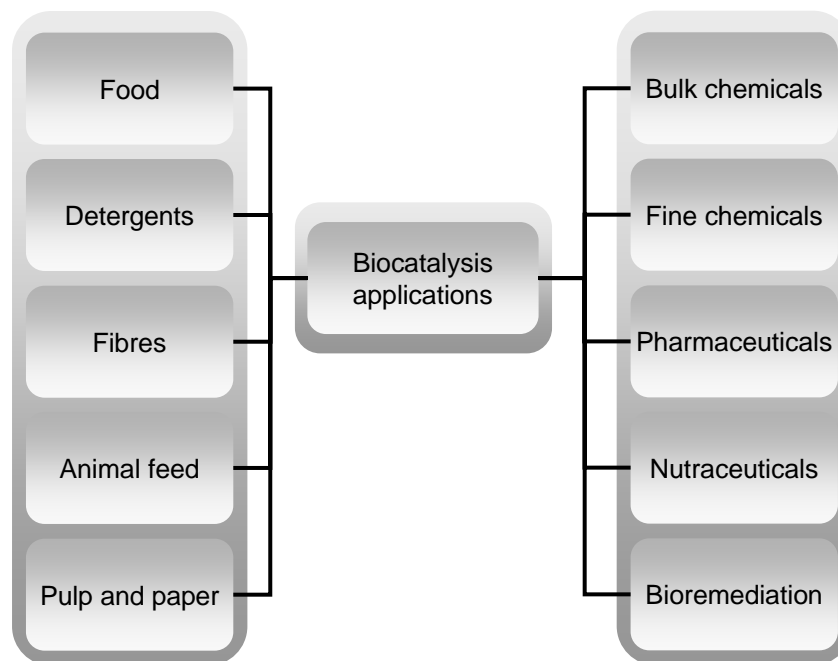
Most of the graphics here were drawn using PowerPoint and Chemdraw (version Ultra 9.0).

Feel free to modify and/or add your own pyrotechnics.

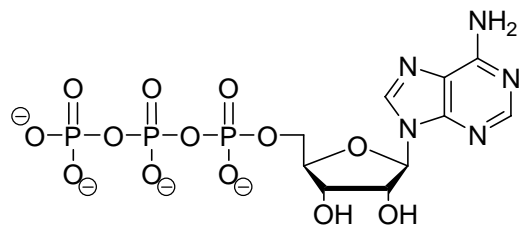
Please send any feedback to [feedback@catalysisbook.org](mailto:feedback@catalysisbook.org)



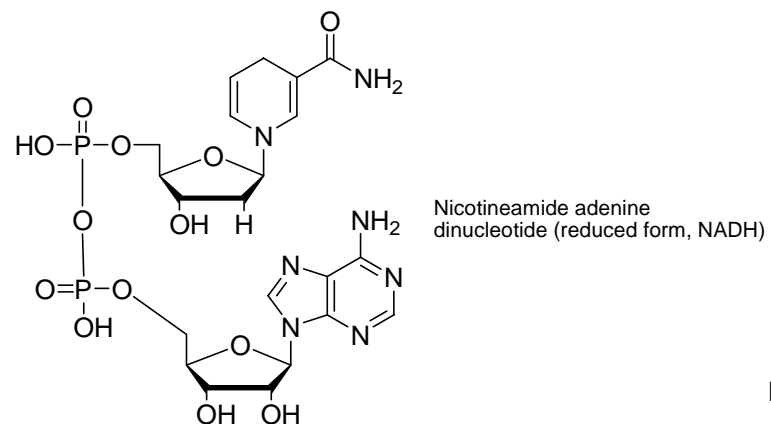
**Figure 5.1**



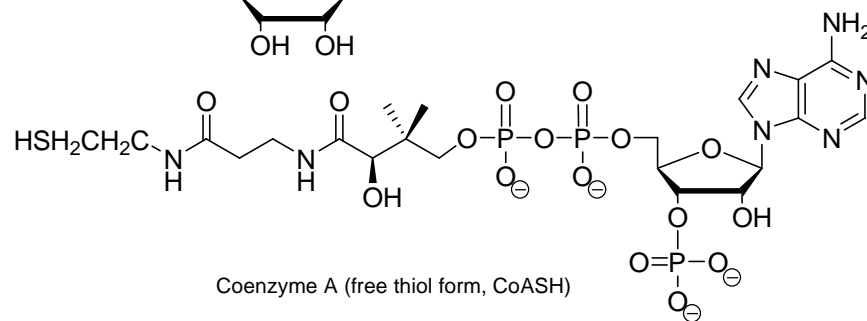
## Figure 5.2



Adenosine triphosphate (ATP)

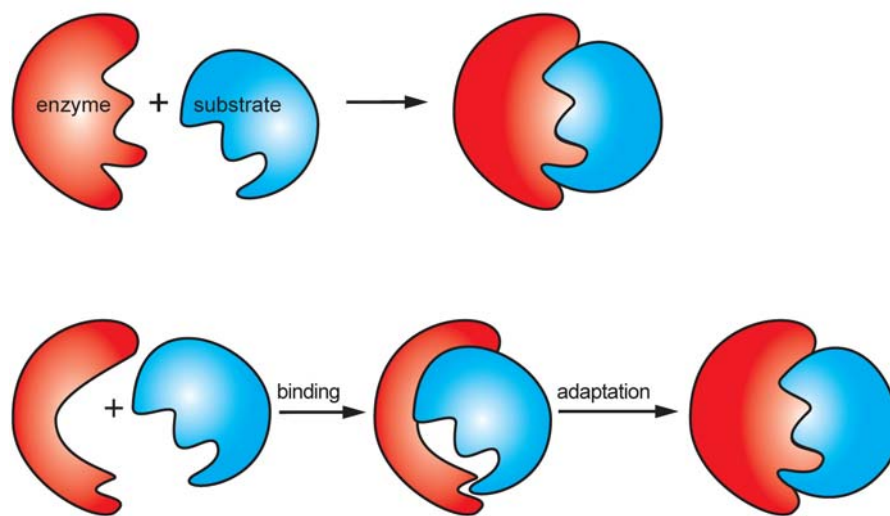


Nicotinamide adenine dinucleotide (reduced form, NADH)

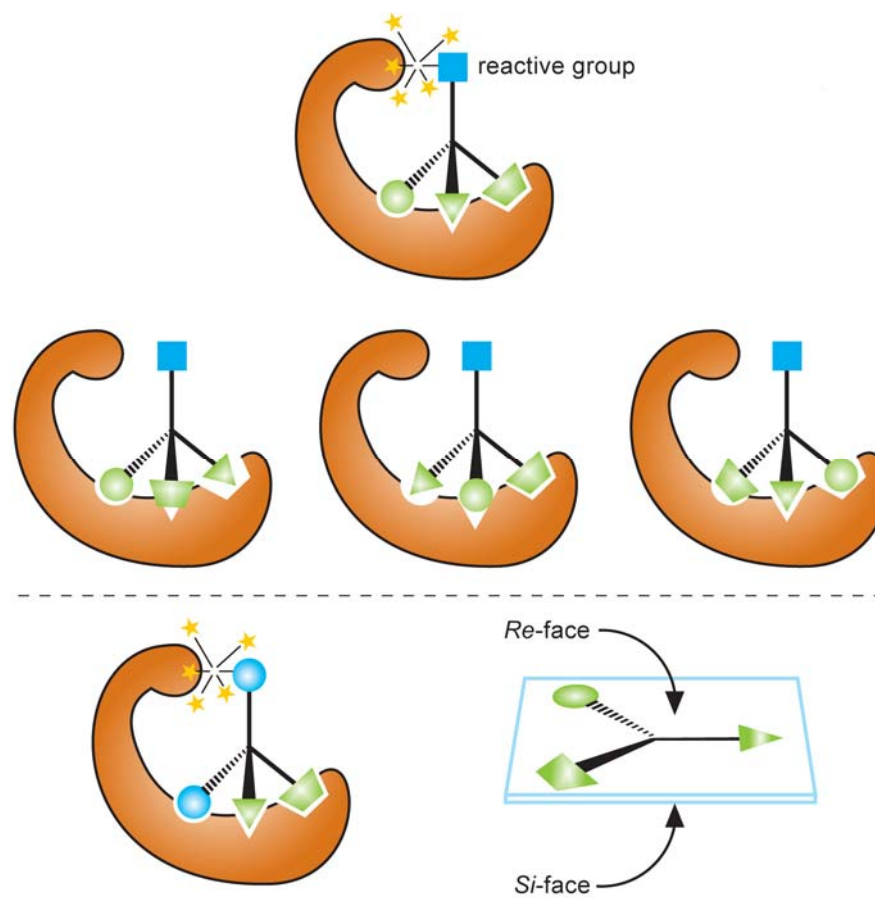


Coenzyme A (free thiol form, CoASH)

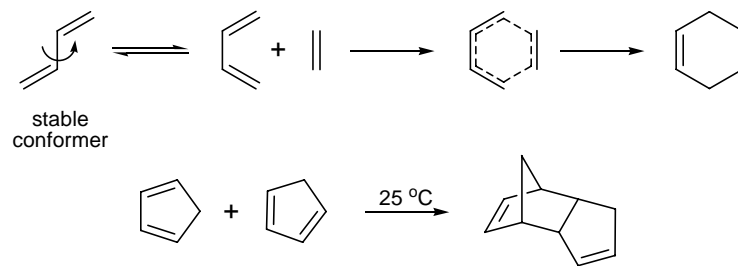
**Figure 5.3**



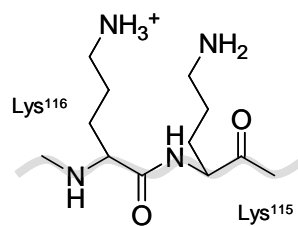
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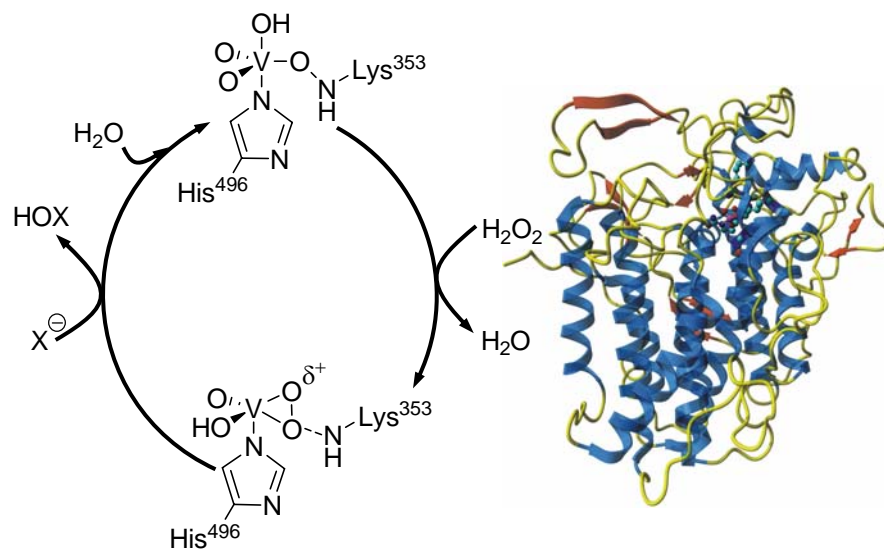
# Figure 5.5



## Figure 5.6

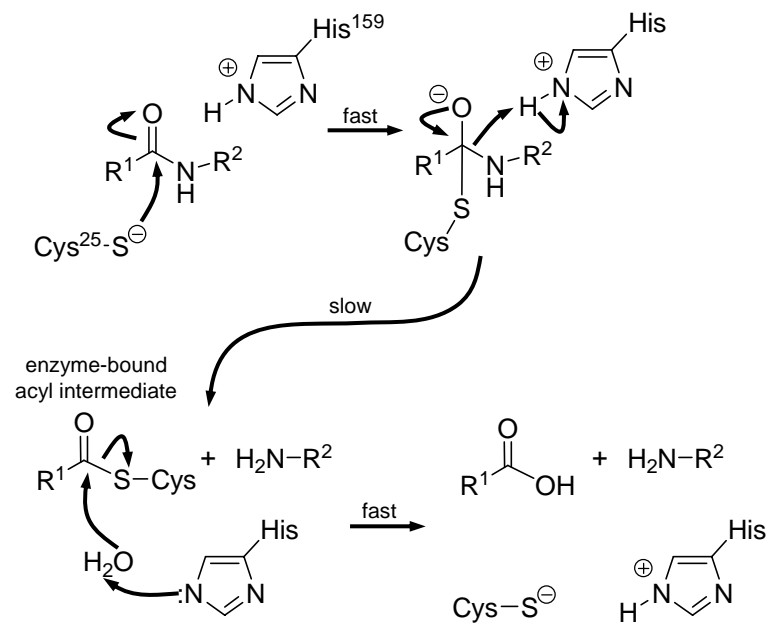


**Figure 5.7**  
**colour fig**

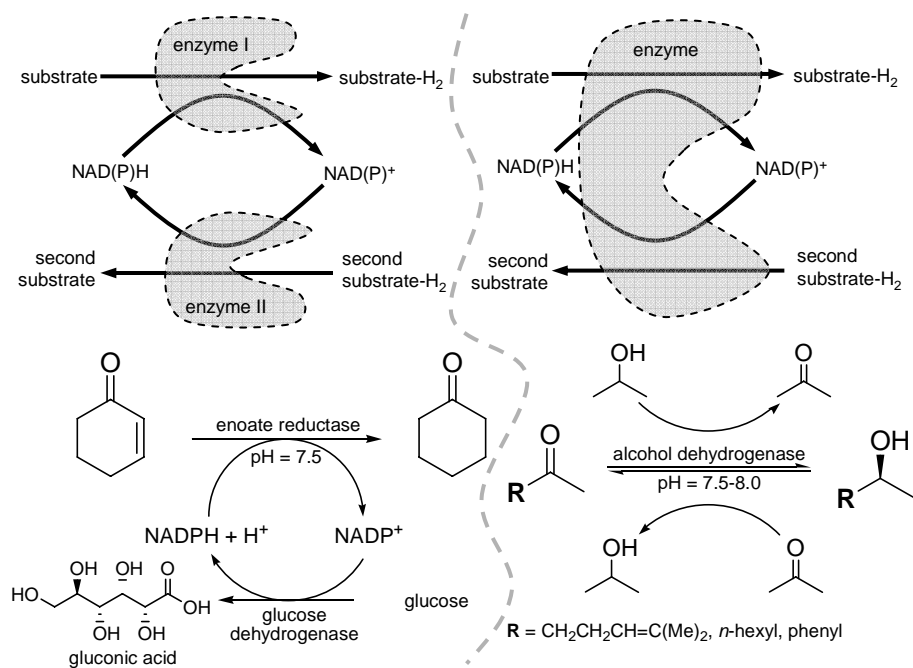




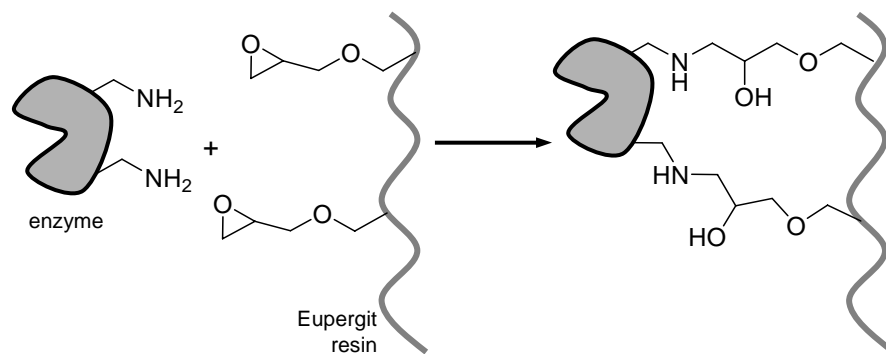
**Figure 5.8**



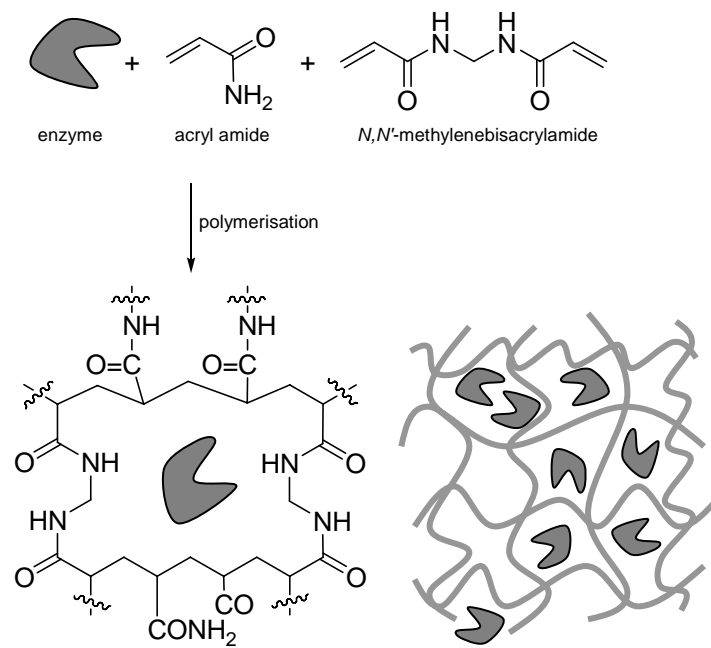
# Figure 5.9



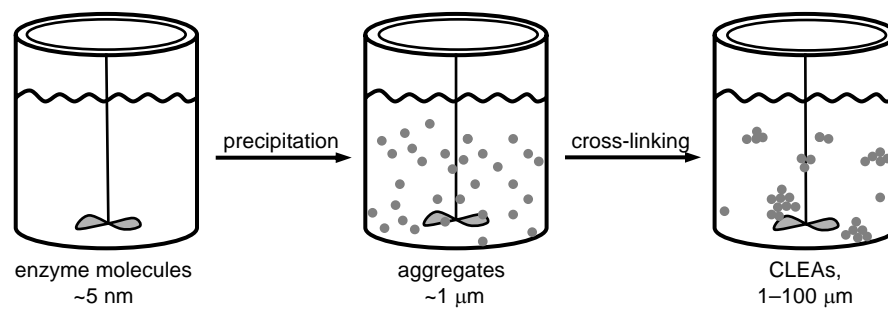
**Figure 5.10**



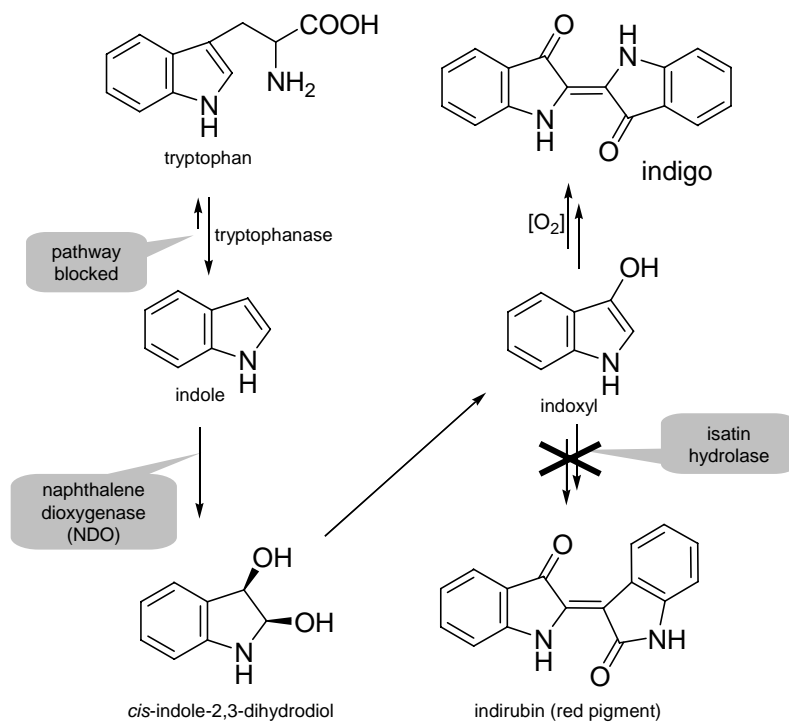
# Figure 5.11



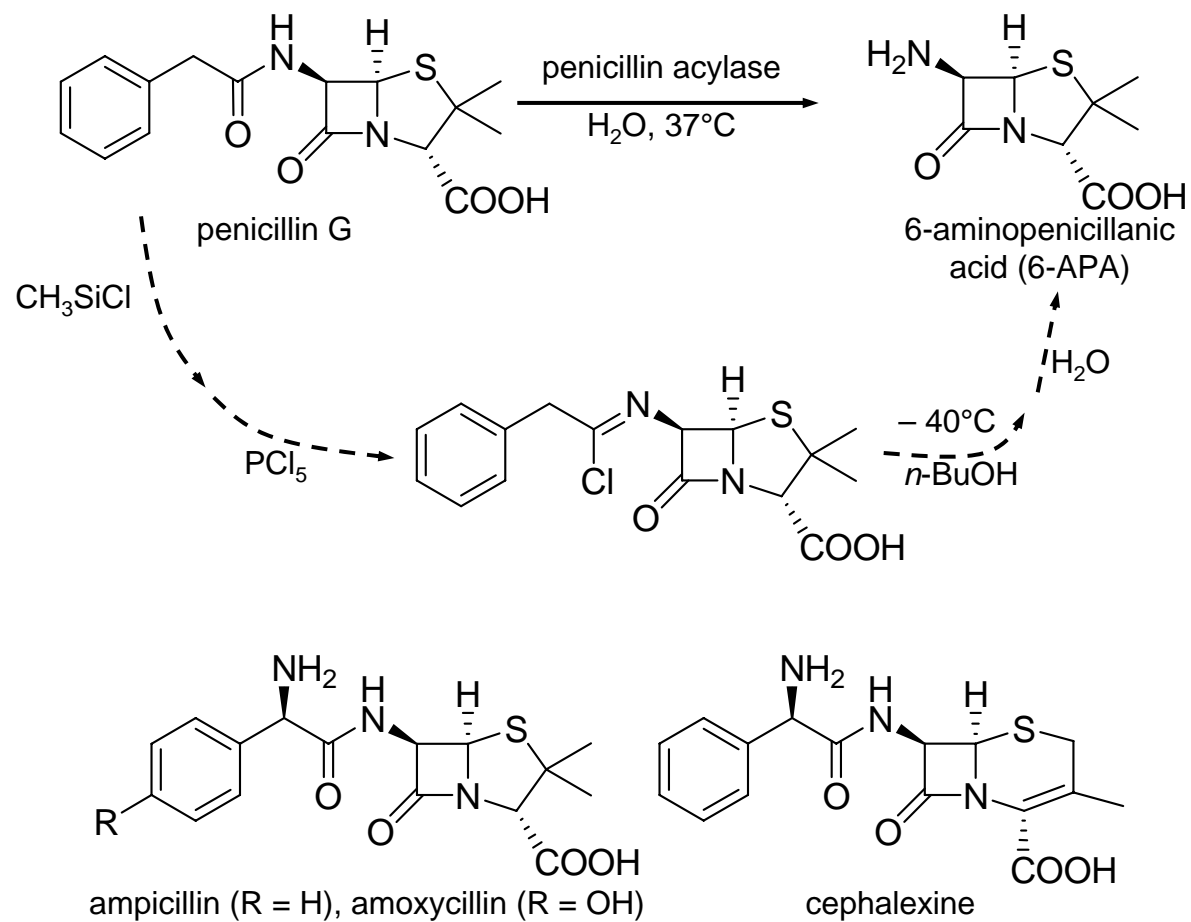
# Figure 5.12



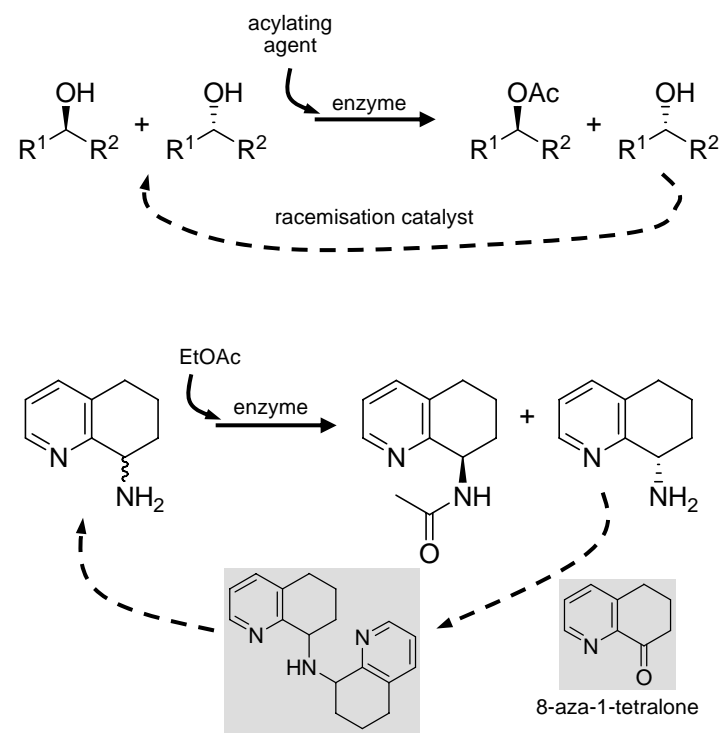
# Figure 5.13



**Figure 5.14**

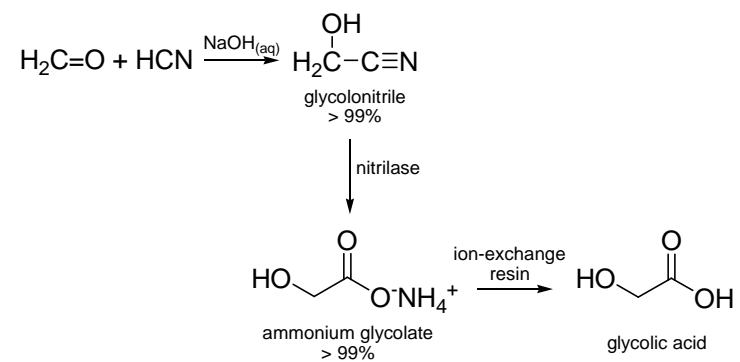


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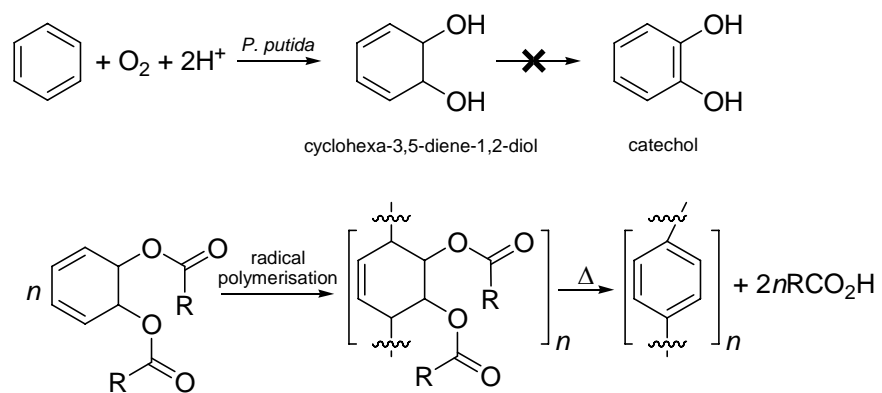




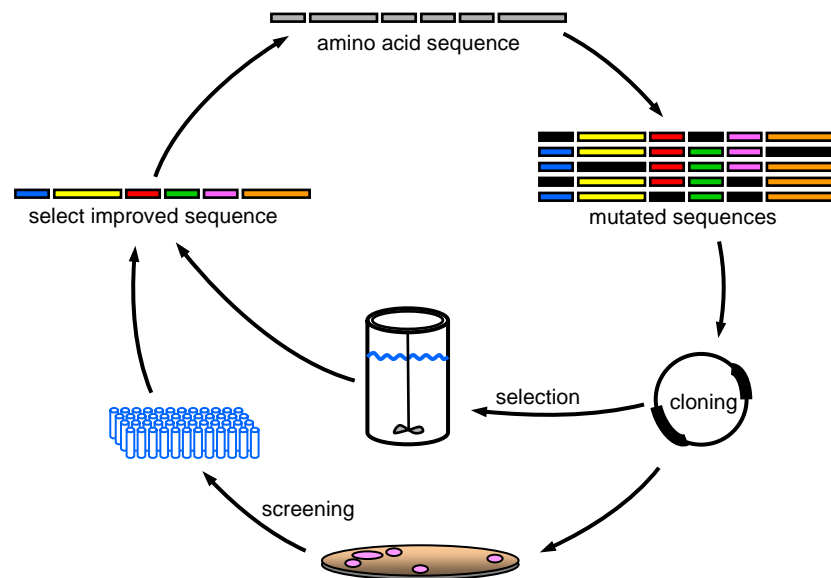
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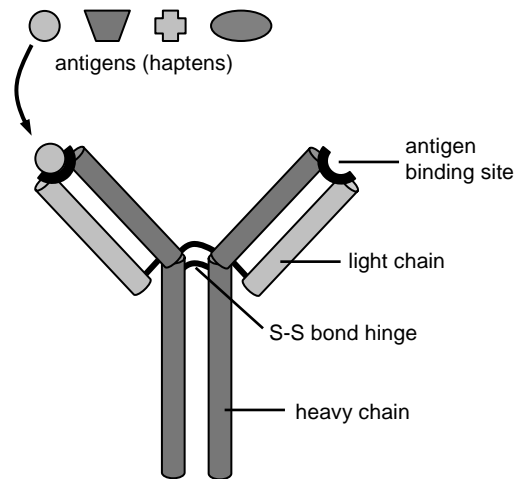
# Figure 5.17



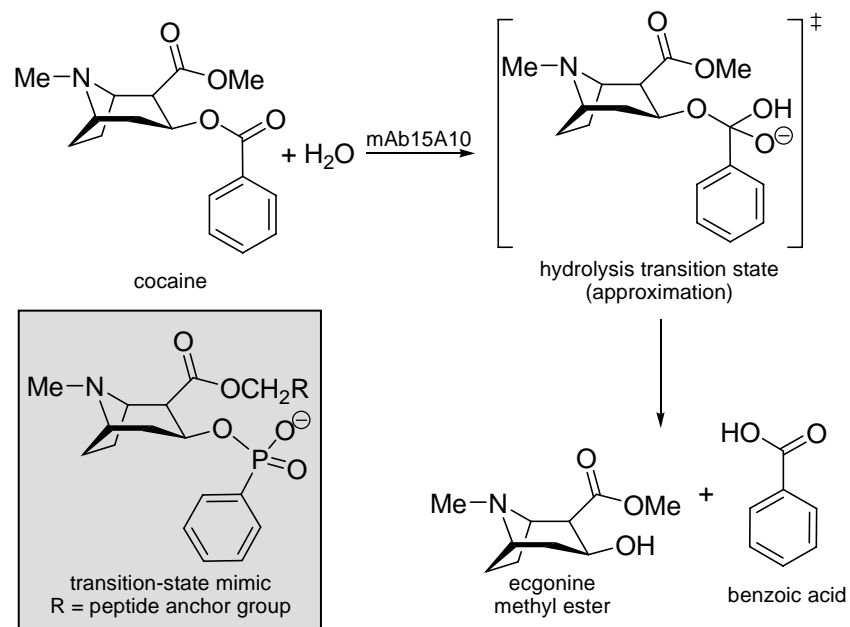
**Figure 5.18**



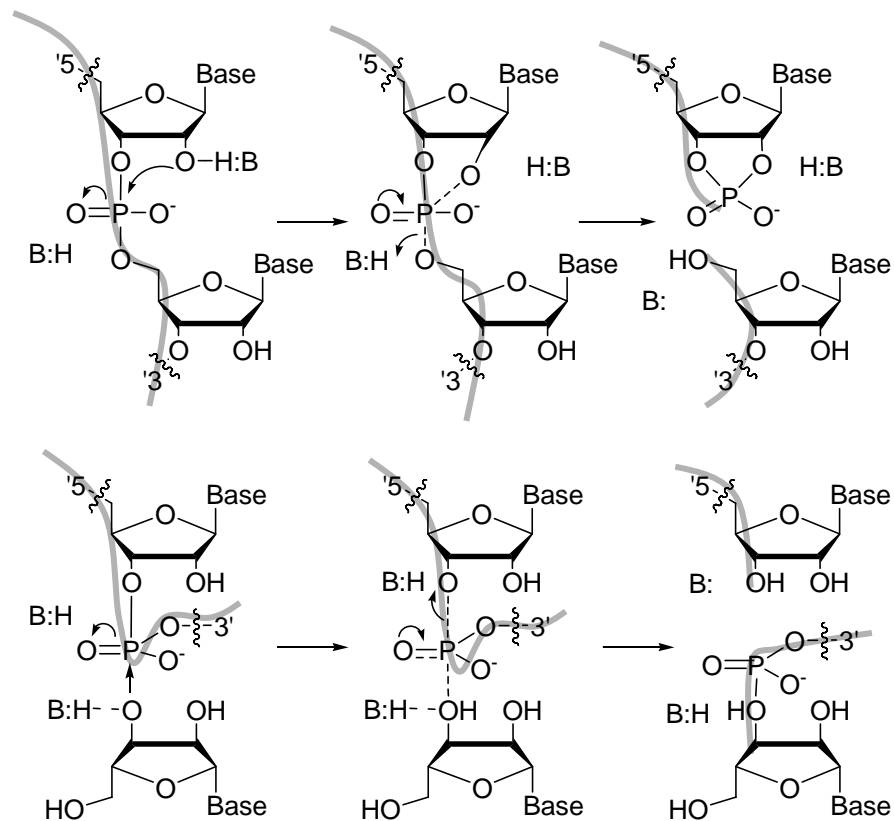
**Figure 5.19**



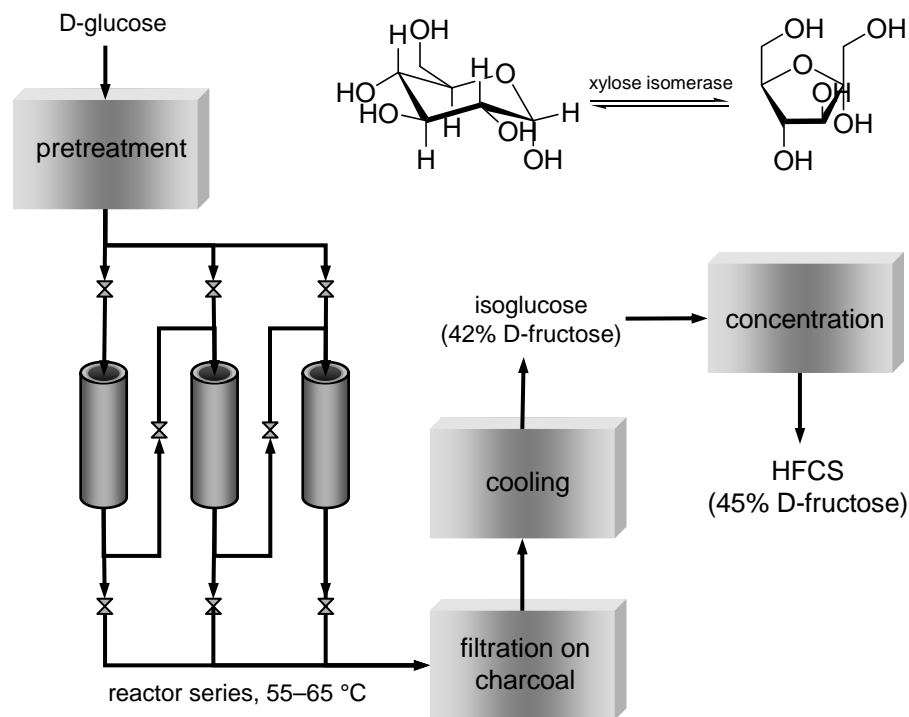
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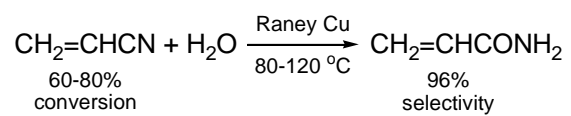
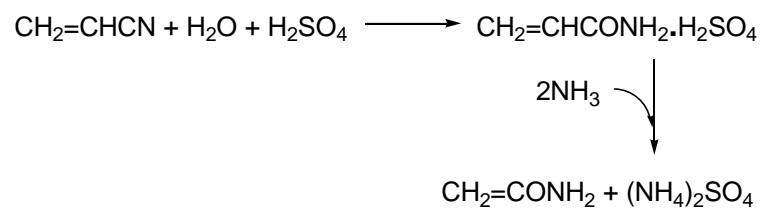
# Figure 5.21



# Figure 5.22

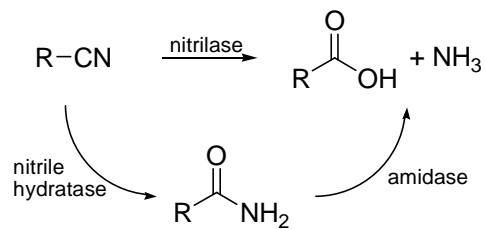
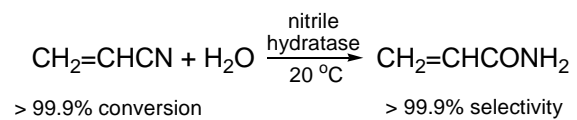


**Figure 5.23**

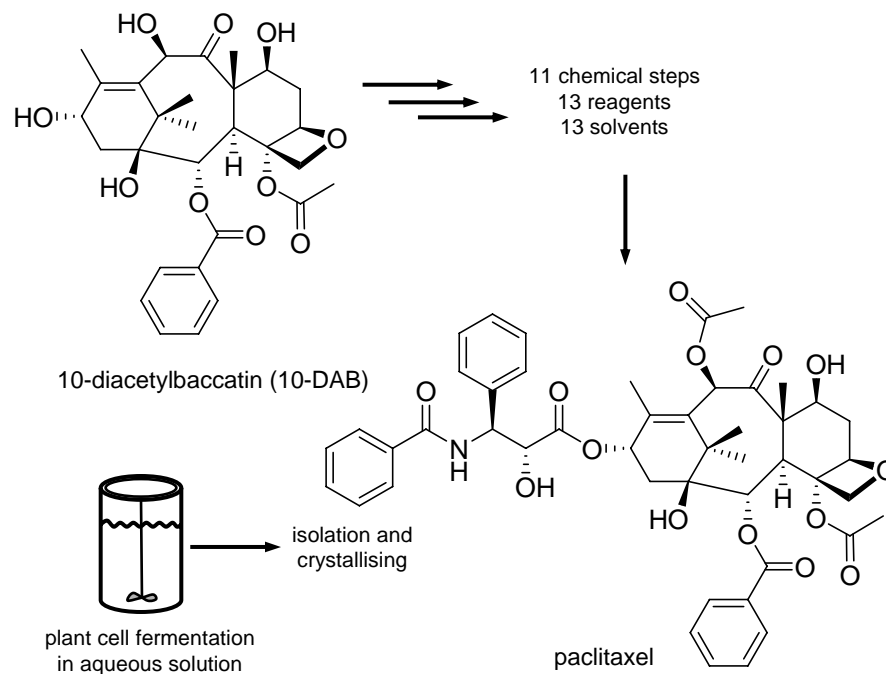




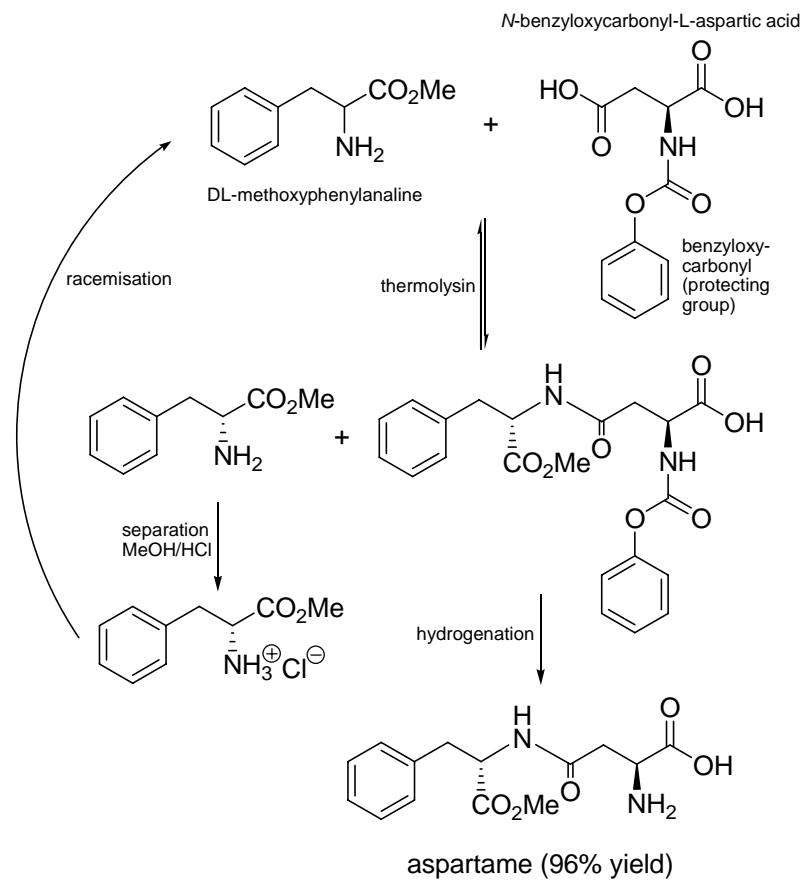
## Figure 5.24



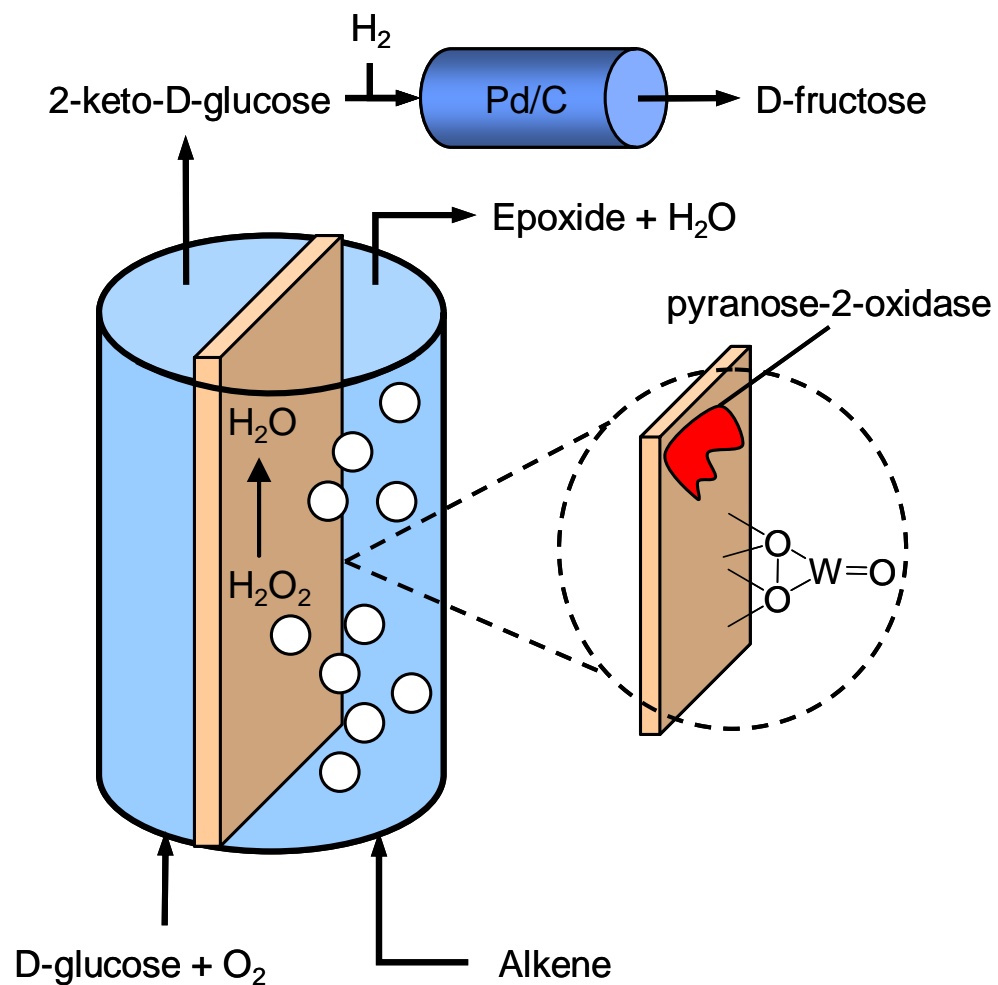
# Figure 5.25



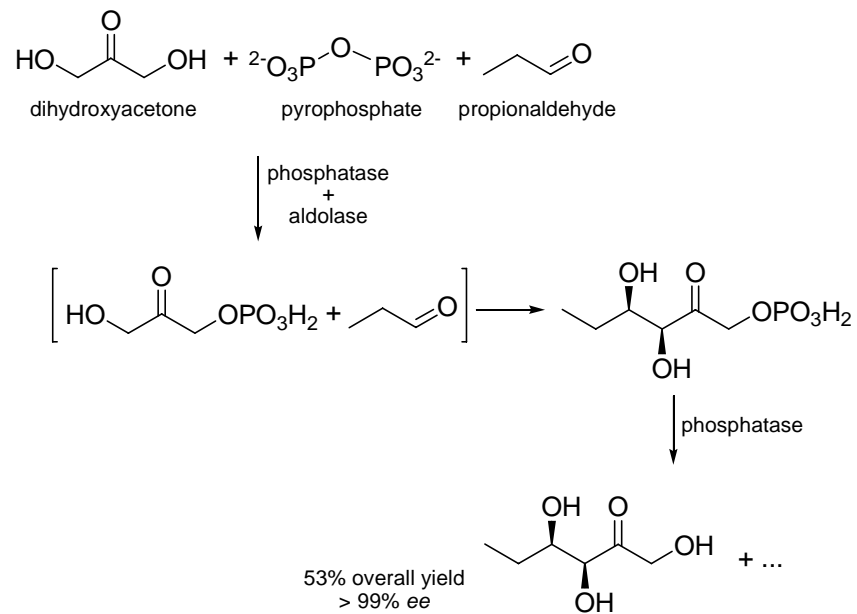
**Figure 5.26**



**Figure 5.27**



# Figure 5.28



**Figure 5.29**

