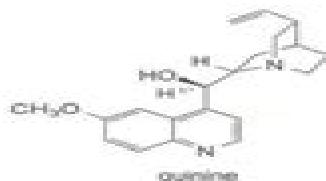


5.65



$$\text{ee} = \frac{[\alpha] \text{ mixture}}{[\alpha] \text{ pure enantiomer}} \times 100\%$$

quinine = A,  
quinine's enantiomer = B

a.  $\frac{-50}{-165} \times 100\% = 30\% \text{ ee}$

b. 30% ee = 30% excess one compound (A)  
remaining 70% = mixture of 2 compounds (30% each A and B)  
Amount of A = 30 + 35 = 65%  
Amount of B = 35%

$\frac{-80}{-165} \times 100\% = 50\% \text{ ee}$

50% ee = 50% excess one compound (A)  
remaining 50% = mixture of 2 compounds (25% each A and B)  
Amount of A = 50 + 25 = 75%  
Amount of B = 25%

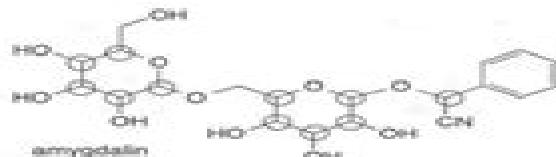
$\frac{-120}{-165} \times 100\% = 73\% \text{ ee}$

73% ee = 73% excess one compound (A)  
remaining 27% = mixture of 2 compounds (13.5% each A and B)  
Amount of A = 73 + 13.5 = 86.5%  
Amount of B = 13.5%

c.  $[\alpha] = +165$   
 $80\% - 20\% = 60\% \text{ ee}$

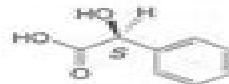
d.  $60\% = \frac{[\alpha] \text{ mixture}}{-165} \times 100\%$   
[α] mixture = -99

5.66



a. The 11 stereogenic centers are circled. Maximum number of stereoisomers =  $2^{11} = 2048$

b. Enantiomers of mandelic acid:



c.  $60\% - 40\% = 20\% \text{ ee}$   
 $20\% = [\alpha] \text{ mixture} - 154 \times 100\%$   
[α] mixture = -31

d.  $\text{ee} = \frac{+50}{+154} \times 100\% = 32\% \text{ ee}$   
32% excess of the S enantiomer

[\alpha] for (S)-mandelic acid = +154

68% of racemic R and S = 34% S and 34% R

S enantiomer: 32% + 34% = 66%  
R enantiomer = 34%

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**J Rink**

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