

Principles Of Downstream Techniques In Bioprocess - - Unit 5 - Week 3

No, the answer is incorrect. Score: 0 Accepted Answers:

bottom phase

5) Aqueous two-phase extraction method is used to extract an enzyme. The partition coefficient is 1.5. Calculate the maximum possible enzyme recovery when the volume ratio of upper to lower phases is 1.9 ------

No, the answer is incorrect. Score: 0
Accepted Answers:
(Type: Range) 0.73,0.75

1 point uld 6) If I want to increase the extraction efficiency to 90% in problem 7, what should the volume ratio for same partition coefficient?

No, the answer is incorrect. Score: 0 **Accepted Answers:**

(Type: Range) 0.88,0.92

1 point

7) In Aqueous two-phase extraction, if partition coefficient = 2, and if the total concentration of the protein is 3.0 Mm in 350 ltr, calculate the concentration in the top phase if the extraction efficiency is 90% and volume of liqiod in the lower phase is 100 L. -----

No, the answer is incorrect. Score: 0 Accepted Answers: (Type: Range) 4.1,4.3

1 point

8) If the dialyzer clearance K_d , = 5 ml/min, the concentrations of urea in the blood entering is 0.15 mmoles/liter and if no blood fluids escapes, Calculate the concentrations of urea in the blood leaving the unit if the blood flow is 20 ml/min -----

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Range) 0.11,0.115

1 point

9) In an MF if the Concentration at the wall is 60% more than the bulk , diffusion coefficient divided boundary layer thickness is = 0.005 cm/sec, what is the velocity of flow (cm/sec) ------

No, the answer is incorrect. Score: 0 **Accepted Answers:** (Type: Range) 0.0023,0.0024

1 point

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End

in



Score: 0 Accepted Answers: (Type: Range) 0.84,0.86

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