

# ACS BIOCHEMISTRY EXAM QUESTIONS AND ANSWERS

**Electrostatic Interactions Question** - Answer: pH 2 and pH 11 (pKa 1, 4, 7, 10)

**FMN Chemical Structure** - Answer: Most prominent of a primary amine bond (NH<sub>2</sub>) in a conjugated bond. FMN is used as a prosthetic group in the 2<sup>nd</sup> enzyme.

**Glucose Salt Production** - Answer: Changes in pH affect ionization states. Protein precipitates when the charges on the protein match the charges in the solution.

**Radioactive Chromatography** - Answer: Separates sample based on polarity (hydrophobic interaction) using Rf.

**Ion Exchange Chromatography** - Answer: Separates sample based on charge. Cationic (+) and anionic (-) charged molecules bind to the columns. Salt is added to elute the bound molecules.

**Hydrophobic/Hydrophobic Phase Chromatography** - Answer: Resins that interact with a hydrophobic phase (hydrophobic interaction) bind. Salt washes away hydrophobic residues (protein).

**Allylic Chromatography** - Answer: Resin is rigid that binds a protein to a resin. This interaction is disrupted on resin bound.

**SEC (MALS)** - Answer: Uses SEC. SEC separates from size based polymerization. Separates based on volume with hydrophobic interaction. Chromatography Rf.

**SEC** - Answer: Hydrophobic interaction. Protein-protein and protein-resin interactions.

**Enzyme Purification** - Answer: Gradient of pH (hydrophobic) using protein (large molecule) protein purification and pH gradient. Protein large molecule purification.

**FMN (2, 4, 6, 8, 10, 12, 14, 16, 18, 20)** - Answer: FMN reacts with the N-terminus of the protein to produce a 2,4-dihydroxy-6-methyl-5,8-dimethyl-7-hydroxy-1,4-benzoxazin-3(1H)-one in the form of a 2,4-dihydroxy-6-methyl-5,8-dimethyl-7-hydroxy-1,4-benzoxazin-3(1H)-one.

**ATP (protein synthesis)** - Answer: The energy source for synthesis.

# Chromatography Biochemistry Questions And Answers

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## **Chromatography Biochemistry Questions And Answers :**

This book delves into Chromatography Biochemistry Questions And Answers . Chromatography Biochemistry Questions And Answers is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Chromatography Biochemistry Questions And Answers , encompassing both the fundamentals and more intricate discussions.

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    - Chapter 1: Introduction to Chromatography Biochemistry Questions And Answers
    - Chapter 2: Essential Elements of Chromatography Biochemistry Questions And Answers
    - Chapter 3: Chromatography Biochemistry Questions And Answers in Everyday Life
    - Chapter 4: Chromatography Biochemistry Questions And Answers in Specific Contexts
    - Chapter 5: Conclusion
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