

## FPLC

**Fast performance liquid chromatography (FPLC) is used to analyse or purify mixtures of proteins within the fluid phase in the column as the name fluid chromatography. In a mixture of proteins, different components have their respective affinities, inside moving fluid phase and the other is solid stationary phase. The flow rate in the buffer is controlled by positive displacement pump and kept constant. The solid stationary phase has silicone/resin beads cross-linked by agarose packed into the column. The protein sample loaded is binds to the beads of resins by charges that interacts in buffer A, dissociated and enters into buffer B. The other impurities of biological samples are are eluted out of the column. The resulted sample is collected in the buffer B while it's flow rate is increased completely through out the elution.**

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Last Updated: 20 May 2024 8:16 am