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Measurement of histones in mammalian cell culture harvest

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Histones, in the form of chromatin heteroaggregates in cell culture harvests, are becoming recognized as a major challenge in antibody purification. However, recent publications have shown that immunoassays for host cell proteins do not detect histones. In addition, histone standards provided in commercially available histone ELISA kits are not based on authentic CHO histones. This presentation will show how to prepare authentic host cell histone standards, and how they are necessary for accurate quantitation of histone contamination in cell culture harvests and during purification procedures.

Biography

Lihan Tan has completed her PhD from National University of Singapore, Singapore. Currently, she is working as a research scientist in downstream processing group, Bioprocessing Technology Institute, A*STAR, Singapore. Her research interest is on developing new platforms for protein or virus purifications, and on analytical techniques to characterize the biomolecular interactions/contents in mammalian cell culture harvest.

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