

Resuspending Samples in Analytical Ultracentrifugation

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Abstract

In analytical ultracentrifugation it is often very useful to resuspend samples *in situ* after sedimentation experiments for further investigation. This can be achieved by manually subjecting the entire sample cell assembly to gentle motion that causes the air bubble in the sample compartment to repeatedly move through the solution and thereby cause convection. Here we describe a cell mixing device that can accomplish the same through axial rotation and slow rocking motion. This cell mixer is low-cost, open-source, and can be easily assembled from readily available components. It can efficiently mix multiple sample cells side-by-side and may be used with various centerpiece designs.

Keywords: analytical ultracentrifugation; laboratory automation; sedimentation velocity