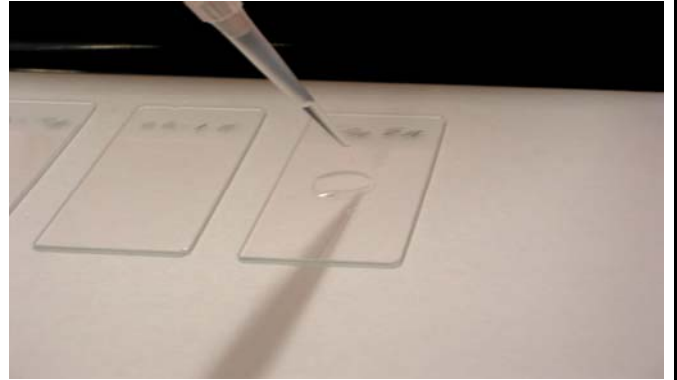


Technical Tips

Number: 00011A

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SUBJECT: Cellular Pellet Review

TECHNICAL TIP OVERVIEW:

This Technical Tip will give specific information on the correct type of cellular pellet that is important for good consistent slides. Before discussing the proper cellular pellets the following facts should be known:

- * **Pour off technique** - AFTER centrifugation, pouring off of the supernatant has been a standard research and laboratory technique for over 50 years. This is achieved by quickly inverting the centrifuge tube, allowing the supernatant to pour out of the centrifuge tube. Because the cells are packed in the bottom of the centrifuge tube by g-forces, they will not pour out with the supernatant, providing the cellular pellet is not disturbed. Therefore, after the liquid has vacated the tube, **KEEP THE TUBE UPSIDE DOWN AND BLOT THE MOUTH OF THE CENTRIFUGE TUBE ONTO AN ABSORBANT PAPER TOWEL**. You will notice the cell pellet stays in the centrifuge tube. **A DRY PELLETT IS IMPORTANT!**
- * **Liqui-*PREP*TM Cellular Base Optimization** - The *Liqui-**PREP**TM* Cellular Base is optimized for use with a relatively dry cellular pellet. The optimal cellular pellet to **Cellular Base** ratio is 1 part of cellular pellet to 2.5 or 3 parts of **Cellular Base**. This is the reason a good supernatant pour off technique is used to get a relatively dry cellular pellet.
- * **Results of too much Residual Supernatant** - If the cellular pellet includes too much residual supernatant, the **Cellular Base** will be too dilute thus disrupting the encapsulation and adherence properties of the **Cellular Base**. If the **Cellular Base** is too dilute, proper adherence will not occur and the cells will wash off the cells during staining. If the **Cellular Base** is too dilute, the cell will not be properly encapsulated. If the produced slides are not stained immediately, the cells will dry as the supernatant evaporates, leaving dried, disrupted cells when they are finally stained.
- * **Centrifugation** - Centrifugation is very important for packing the cells into a firm pellet. If the centrifugation g-force and time are correct, the pellet will be properly packed and will not come out with the supernatant during pouring off of the supernatant. (See Technical Tip TT00010 for a more detailed discussion of g-forces)