

## Notes for the TLC Slides

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1. The Anacin™ initial setup. The tablet will be pulverized with the mortar and pestle.
2. Grinding the tablet with the mortar and pestle. Use circular motions to grind up the tablet. Do not be concerned if you get a tablet with a coating that does not pulverize.
3. A piece of weighing paper will be used to transfer the pulverized tablet to the cotton stuffed pipet. Note how the weighing paper is folded. This makes it easier to transfer the powder.
4. Transferring the powder from the mortar to the weighing paper.
5. Setup showing the weighing paper with the pulverized tablet on it and ready to be transferred to the cotton stuffed pipet.
6. Setup showing the mortar with a gel-cap Extra Strength Tylenol™, the centrifuge tube holder for the Tylenol, the centrifuge tube in the holder, and the cotton stuffed pipet in the centrifuge tube.
7. The pulverized gel cap. Note that the coating has not been ground up. Do not worry about the coating.
8. Transferring the powder from the weighing paper to the cotton stuffed pipet.
9. Denatured ethanol is on the left and the cotton stuffed pipet is on the right sitting in the centrifuge tube for the Anacin setup.
10. Add a few drops of ethanol to the cotton stuffed pipet and allow it filter down.
11. An adequate amount of liquid is needed for the spotting.
12. Here is a setup of the 9 different analgesics, and a TLC plate that has been prepared and is ready for spotting.
13. The Anacin™ spotting setup. Notice the Anacin™, centrifuge tube, the TLC plate, and the capillary tube.
14. The correct technique for spotting the plate. Make sure the capillary tube is vertical when spotting. Also, only a small spot is needed.
15. Here is an example of how to wet the filter paper.
16. The developing chamber. Make sure that the spotted side of the TLC plate is facing the wetted filter paper but resting on opposite sides of the developing chamber. Note how the plastic bag encloses the chamber. Make sure once you put your plate into the chamber, you do not move the developing chamber or the plate until the liquid has risen to the appropriate height.
17. The pictures on the left shows what the plate looks like after you have identified where your spots are with the UV lamp. The picture on the right is an actual view of looking at the plate with the UV lamp.