



This assignment helps you apply your knowledge from this week's modules and readings.



Completion of the eScience labs provides hands on experience with the emulsion technique.

20



### Lab 3, Experiment 1

Directions to complete Experiment 1:

- 1) Read and complete each procedure step for Lab 3, Experiment 1 Compounding and Packaging a Powder found in your eScience Lab Manual and record in "Table 1: Powder Mass" record the Total Powder Mass (g) and Total Mass / 5 (g).
- 2) Record the observations notes you recorded in Table 1 in your manual to the table below.
- 3) Answer the four (4) post lab questions.

Table 1: Powder Mass



Total Powder Mass (g)	Total Mass / 5 (g)
20.4 g	4.08 g

1. Why is it important to blend the powders using the "doubling" technique, rather than simply blending all of the powdered ingredients together at the same time?

It is important to blend the powders using the "doubling technique because it makes a homogenous mixture.

2. Why do all of the tablets need to be triturated separately?

The tablets need to be triturated separately because you need to know just how many grams per instance of the medication and how strong to make the medication.

3. What purpose does the sieve serve after trituration?

The sieve removes any chunks, so the final product is purely powder.

4. What kind of mortar and pestle is most ideal for this type of procedure; glass, porcelain, or Wedgwood?

Why do you think this is so?

Porcelain, it has the best surface and made crushing the smarties really easy. You are also not supposed to use wood for triturating tablets.

# Escience Labs Lab Manual Answers

**O García**



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