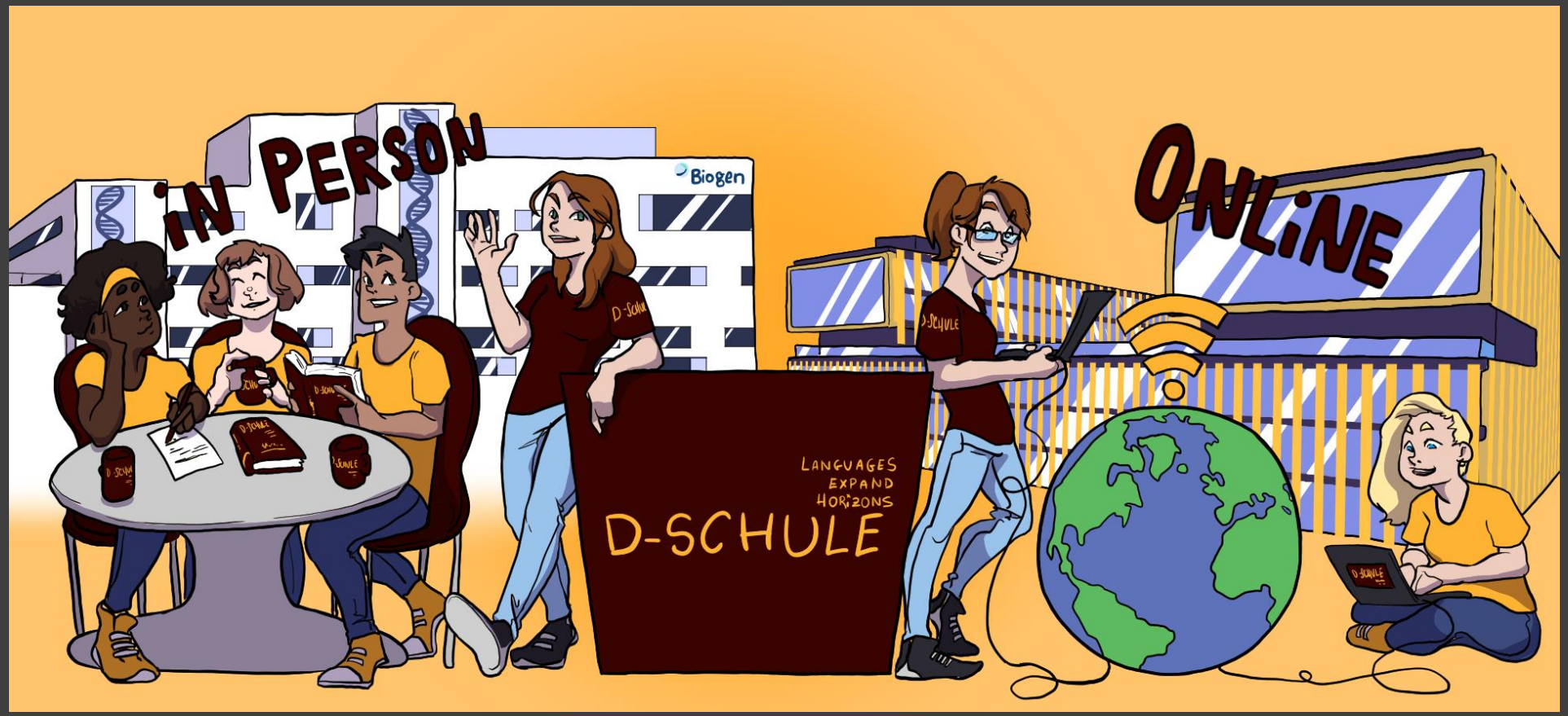
Biogen Specific Teaching Material

Buffer and Media Preparation – How to Prepare a Solution



Questions & Answers

1. What do you call a substance that does not 'like' water?

1. A substance that does not 'like' water is one that is hydrophobic.

2. A substance which has both hydrophilic and hydrophobic parts, and is both soluble in water and is hydrophobic, is called.....

2. A substance which has both hydrophilic and hydrophobic parts, and is both soluble in water and is hydrophobic, is called amphipathic.

3. What is a solution in a pharmaceutical context?

3. It is when a solvent, into which one or more components are added to solutes, become completely soluble.

4. What happens when compounds with higher density than water are added to water?

4. When a compounds with higher density than water are added to water, density increases.

5."M", which expresses the moles of solute per litre of solution, stands for which word?

5. M stands for Molarity.

6. When a solvent becomes insoluble, what does it create?

6. It creates a suspension.

7. When preparing a 1M NaCl solution, at which step do we add a small volume of distilled, deionized water?

7. We add a small volume of distilled, deionized water at step 3.

8. Molarity (or "M") is expressed in terms of litres of solvent. (true of false?)

8. False. It is expressed in terms of liters of solution.

9. When media and buffers are added to a solvent, which are the only components to remain insoluble?

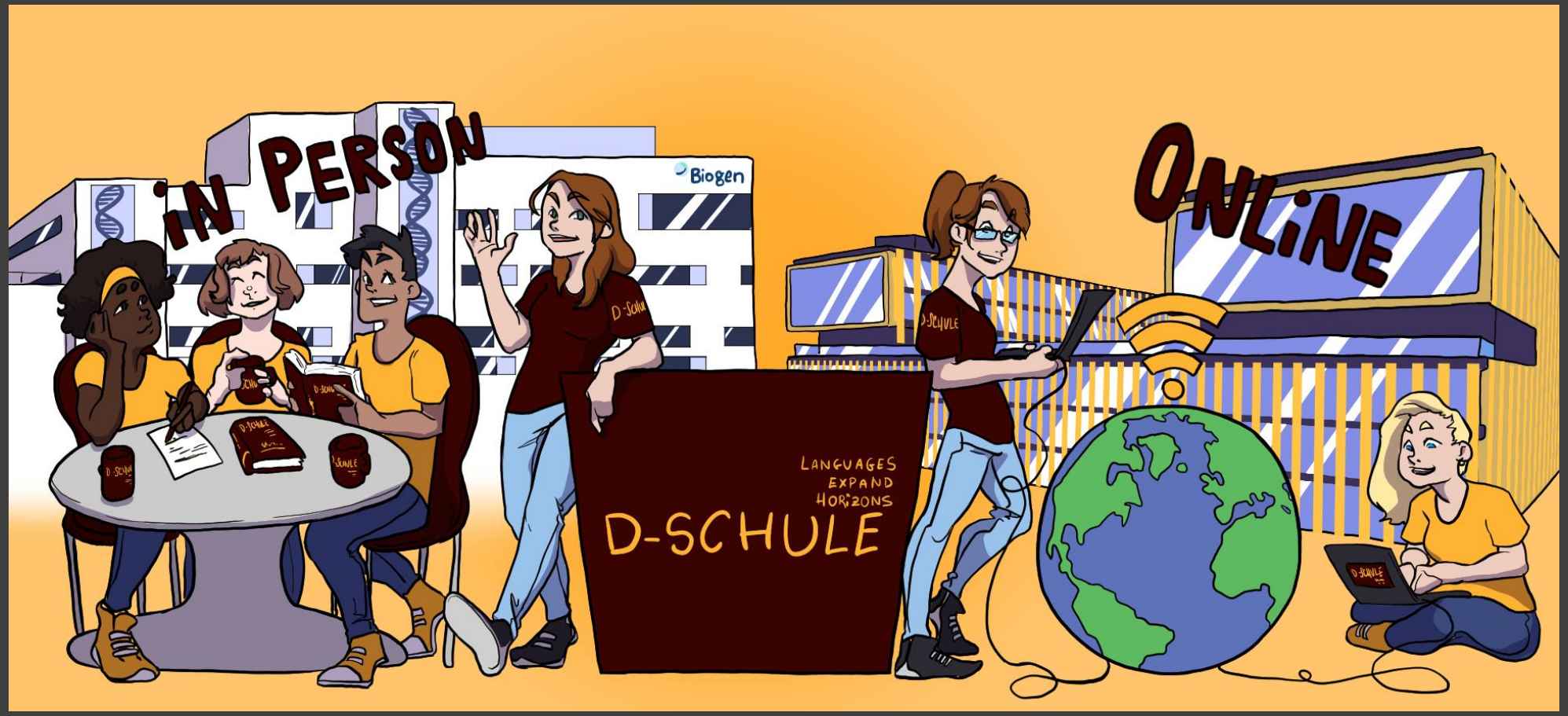
9. The cells are the only components. (and certain components of the cells.)

10. Define solubility.

10. The maximum amount of a solute that can be dissolved in a solvent before the solute separates and/or precipitates.

Thank you for your attention!

D-SCHULE – Your Language School



D-SCHULE
Domenika Hüsser
info@d-schule.ch
+41 79 730 52 35