



Which Device?

Version 100925

Students will determine what lab equipment is appropriate for making solutions.

Laboratory Safety

1. Wear lab coats, gloves, and eye protection as required by district protocol


Materials Required

Item	
Printed Handouts	1 per student

Teacher Prep

1. Print out page 2 for students

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Patents issued: US 10,641,731 B2, US 20110253541 A1, US 11879118-B2, US 12,384,994,
US 11,879,117, US 11,879,118

For each of the scenarios below determine which type of measuring devices are needed to successfully complete the procedure. Your choices are listed in Table 1.

Table 1 - Devices to choose from
P20 micropipette
P200 micropipette
P1000 micropipette
10 mL graduated cylinder
100 mL graduate cylinder
1000 mL graduate cylinder

1. To make 250 mL of 1X TBE add 25 mL of 10X TBE stock solution to 225 mL of distilled water.

Ingredient	Device to Use
25 mL of 10X TBE stock solution	
225 mL of distilled water	

2. Add the following to a 2.0 mL microcentrifuge tube:

Ingredient	Device to Use
1.2 mL of buffer	
0.45 mL of salt solution	
15 μ L of enzyme solution	

3. Add the following to a 50 mL conical:

Ingredient	Device to Use
25 mL of water	
350 μ L of buffer	
125 μ L of protein solution	
28 μ L of NaOH	