

Biotechnology–Sample Skill Scenario

Competitor Scenario 1:

It's your first day as a lab technician at the HOSA Laboratory. Your employer wants to test the accuracy of your pipetting skills. Please prepare three 500 µl samples:

- Sample 1: in three increments (200 µl + 200 µl + 100 µl)
- Sample 2: 500 µl using a single micropipet
- Sample 3: Using a transfer pipet

Please record the mass of each sample here:

- Sample 1:
- Sample 2:
- Sample 3:

Skill to be performed:

- Skill I: Using 20-200 µl and 100-1,000 µl Micropipets and Transfer Pipets
- Time – 15 minutes

Judge Script:

Student is preparing three samples. The order in which they are prepared does not matter. They should have 3 samples prepared in the 3 different ways, all of which having a similar end mass.

Step 2: Award points if student

- Labels empty microtubes
- Weighs empty microtubes, clearing the balance before each, and records weight of each before starting

Steps 3-5: Award points if student uses the 20-200 µl micropipet and sets the micropipet to proper volume.

Step 6: Award points if student uses the 100-1,000 µl micropipet and sets the micropipet to proper volume.

Step 8: Award points if student weighs microtubes, clearing the balance before each, and records weight of each.

Mass = final mass – initial mass