Claims

1. A tubing kit for forming a mixture comprising:

a first portion of tubing configured to be fluidly connected to a container containing a first composition;

a second portion of tubing configured to be fluidly connected to a container containing a second composition;

a dampener fluidly connected to the first portion of tubing and fluidly connected to the second portion of tubing;

a mixer for mixing the first composition from the first portion of tubing and the second composition from the second portion of tubing;

a first dampener connector that fluidly connects the first portion of tubing to the dampener and to the mixer,

a second dampener connector that fluidly connects the second portion of tubing to the dampener and to the mixer,

a mixture container for collecting the mixed first composition and second composition from the mixer,

wherein the first portion of tubing is configured to be connected to a first peristaltic pump head for pumping the first composition from the container containing the first composition to the mixture container, and the second portion of tubing is configured to be connected to a second peristaltic pump head for pumping the second composition from the container containing the second composition to the mixture container.

2. The tubing kit of claim 1, wherein the dampener comprises an enclosed volume of fluid.

3. The tubing kit of claim 2, wherein the fluid is air.

4. The tubing kit of any of claims 1-3, wherein the dampener is a tubing dampener.

5. The tubing kit of claim 1, wherein the dampener comprises a flexible membrane.

6. The tubing kit of any of claims 1-5, further comprising a first tee connector that fluidly connects the dampener, the first portion of tubing, and a first mixer input portion of tubing, wherein the first mixer input portion of tubing fluidly connects to the mixer.

7. The tubing kit of claim 6, further comprising a second tee connector that fluidly connects the dampener, the second portion of tubing, and a second mixer input portion of tubing, wherein the second mixer input portion of tubing fluidly connects to the mixer.

8. The tubing kit of any of claims 1-7, wherein the first portion of tubing comprises a first segment of tubing and a second segment of tubing, wherein the first segment of tubing and the second segment of tubing are fluidly connected in parallel.

9. The tubing kit of claim 8, wherein the first segment of tubing is configured to be connected to a peristaltic pump head, and the second segment of tubing is configured to be connected to a different peristaltic pump head.

10. The tubing kit of any of claims 1-8, wherein the second portion of tubing comprises a third segment of tubing and a fourth segment of tubing, wherein the third portion of tubing and the fourth portion of tubing are fluidly connected in parallel.

11. The tubing kit of claim 10, wherein the third segment of tubing is configured to be connected to a peristaltic pump head, and the fourth segment of tubing is configured to be connected to a different peristaltic pump head.

12. The tubing kit of any of claims 1-11, wherein the mixer comprises an input fluidly connected to the first portion of tubing, an input fluidly connected to the second portion of tubing, and output fluidly connected to the mixture container.

13. The tubing kit of any of claims 1-12, wherein the mixer comprises a Y-connector, a helical mixer, or a static mixer.

14. The tubing kit of any of claims 1-13, wherein the mixture container is a bag, vessel, or bottle.

15. A system for forming a pharmaceutical composition or mixture of pharmaceutical compositions, the system comprising:

    a first container containing a first pharmaceutical composition;

    a second container containing a second pharmaceutical composition;

    a first portion of tubing fluidly connected to the first container;

    a second portion of tubing fluidly connected to the second container;

a dampener fluidly connected to the first portion of tubing and fluidly connected to the second portion of tubing;

a mixer for mixing the first pharmaceutical composition from the first portion of tubing and the second pharmaceutical composition from the second portion of tubing;

a first dampener connector that fluidly connects the first portion of tubing to the dampener and to the mixer;

a second dampener connector that fluidly connects the second portion of tubing to the dampener and to the mixer;

a mixture container for collecting the mixed first pharmaceutical composition and second pharmaceutical composition from the mixer;

a first peristaltic pump head connected to the first portion of tubing for pumping the first pharmaceutical composition from the first container to the mixture container; and

a second peristaltic pump head connected to the second portion of tubing for pumping the second pharmaceutical composition from the second container to the mixture container.

16. A method for transferring pharmaceutical compositions using peristaltic pumps comprising:

pumping a first composition from a first container through a first portion of tubing using a first peristaltic pump;

pumping a second composition from a second container through a second portion of tubing using a second peristaltic pump;

dampening pulse in a fluid flow of the first composition in the first portion of tubing and dampening pulses in a fluid flow of the second composition in the second portion of tubing using a dampener fluidly connected to the first portion of tubing and fluidly connected to the second portion of tubing; and

mixing the first composition from the first portion of tubing and the second composition from the second portion of tubing in a mixer fluidly connected to the first portion of tubing and the second portion of tubing, wherein a first dampener connector fluidly connects the first portion of tubing to the dampener and to the mixer and a

second dampener connector fluidly connects the second portion of tubing to the dampener and to the mixer.

17. The method of claim 16, further comprising depositing the mixture containing the first composition and the second composition into a mixture container that is fluidly connected to the mixture.