What is claimed is:

1. A multi-compartment bag for containing a medical fluid comprising:

a first and second sheet of material sealed to one another at a peripheral seal to define an interior volume of the bag;

a first compartment which is empty and collapsed;

a second compartment containing a concentrate sufficient to generate a solution of a desired concentration when the bag is filled with diluent;

a plurality of ports bonded into the peripheral seal and each providing fluid communication into the first compartment;

an interior seal extending from a first side of the peripheral seal to an opposing side of the peripheral seal, the first and second compartments being defined by the peripheral seal and interior seal, the second compartment being fluidically isolated from each of the plurality of ports by the interior seal.

2. The bag of claim 1, wherein the first compartment and second compartment have different fluid holding capacities.

3. The bag of claim 1, wherein the plurality of ports includes a first port and a second port, the first and second port being bonded into a single side of the bag.

4. The bag of claim 1, wherein the concentrate is selected from a list consisting of a liquid concentrate, lyophilized drug, powder, and a crystalline solid.

5. The bag of claim 1, wherein the concentrate is a concentrate for solution selected from a list consisting of salt solution, normal saline, half normal saline, D5W, Ringers solution, lactated ringers, sugar solution, and dialysate.

6. The bag of claim 1, wherein the interior seal is a peelable seal.

7. The bag of claim 1, wherein the interior seal extends parallel to a side of the bag.

8. The bag of claim 1, wherein the interior seal is configured to be defeated by a system for producing and packaging medical fluids.

9. A reservoir for preparing and holding a medical fluid comprising:

a first and second sheet of material sealed to one another at a peripheral seal to define an interior volume of the reservoir;

a first compartment which is unfilled and devoid of contents;

at least one second compartment containing a concentrate, each second compartment isolated from the first compartment and partially defined by an interior seal

which extends from the peripheral seal from a first side of the reservoir to a second side of the reservoir; and

at least one port bonded into the peripheral seal and providing a fluid pathway into the first compartment, the at least one port including a first and second port.

10. The reservoir of claim 9, wherein each of the interior seals are peelable seals.

11. The reservoir of claim 9, wherein the interior seal partially defining one of the at least one second compartment extends across the width of the reservoir.

12. The reservoir of claim 9, wherein the interior partially defining one of the at least one second compartment extends from a first side of the reservoir to a second side of the reservoir, the first and second sides of the reservoir being positioned substantially perpendicular to one another.

13. The reservoir of claim 9, wherein the at least one port includes a first port and a second port.

14. The reservoir of claim 9, wherein the concentrate is selected from a list consisting of a liquid concentrate, lyophilized drug, powder, and a crystalline solid.

15. The reservoir of claim 9, wherein the concentrate is a concentrate for solution selected from a list consisting of salt solution, normal saline, half normal saline, D5W, Ringers solution, lactated ringers, sugar solution, and dialysate.

16. A reservoir for preparing a fluid comprising:

a first and second sheet of material sealed to one another at a peripheral seal to define an interior volume of the reservoir

at least one port bonded into the peripheral seal and providing a fluid pathway into the interior volume;

a concentrate; and

a peelable seal spanning across the interior volume of the reservoir from the peripheral seal at a first side of the reservoir to the peripheral seal at an opposing side of the reservoir, the peelable seal isolating the concentrate within the interior volume from the at least one port; and

wherein, excepting the concentrate, the reservoir is otherwise empty and flat.

17. The reservoir of claim 16, wherein the concentrate is selected from a list consisting of a liquid concentrate, lyophilized drug, powder, and a crystalline solid.

18. The reservoir of claim 16, wherein the concentrate is a concentrate for solution selected from a list consisting of salt solution, normal saline, half normal saline, D5W, Ringers solution, lactated ringers, sugar solution, and dialysate.

19. The reservoir of claim 16, wherein the peelable seal extends across the width of the reservoir.

20. The reservoir of claim 16, wherein the peelable seal is configured to be machine interruptible.