CLAIMS

1. A collapsible container for a fluid, comprising:

a flexible material, defining an internal working volume;

at least one collapsible baffle adhered within the working volume of said collapsible container; said at least one baffle having one or more channels for delivering one or more fluids into the working volume via at least one hole in said one or more channels;

one or more channels in said container for exiting or venting fluids from the working volume; and

an impeller assembly disposed at least partially within said working volume of said container, wherein the at least one baffle comprises collapsible pockets for housing a rigid member.

2. The container of claim 1, wherein said baffle comprises one of a ladder-shaped baffle or an X-shaped baffle.
3. The container of claim 1 or 2, wherein said working volume is a closed volume.
4. The container of claim 1 or 2, wherein said container is a two-dimensional bag, a three-dimensional bag, or a bioreactor.
5. The container of claim 1 or 2, wherein the at least one baffle is capable of delivering a gas or liquid to said working volume above a surface level of said fluid, at a surface level of said fluid, or below a surface level of said fluid via said holes.
6. The container of claim 1 or 2, wherein the at least one baffle is capable of delivering a liquid that includes feed, nutrients, buffer solution, and/or other processing aids.
7. The container of claim 1 or 2, wherein the pockets are tapered from a narrowest point adjacent the bottom wall to a widest point adjacent the top wall.
8. The container of claim 1 or 2, wherein the one or more channels traverses a bottom portion of the bag and extends to an upper position above a liquid surface level to deliver an antifoam agent onto the liquid surface.
9. The container of claim 1 or 2, wherein the one or more channels traverses a bottom of the bag to an upper position above a liquid surface level to deliver gases to the container.

10. The container of claim 1, wherein the one or more channels are formed of flexible plastic tubing for delivery of pressurized gases or liquids.
11. The container of claim 1, wherein the one or more channels extend from a first position adjacent the bottom wall on the one or more sidewalls to a second position on one more of the sidewalls adjacent the top wall at least tangentially opposite that of the first position.
12. The container of claim 1, comprising two or more channels.
13. The container of claim 1, comprising three or more channels.
14. The container of claim 1, comprising four or more channels.
15. The container of any of claims 1 or 2, further comprising a collapsible dip tube.
16. The container of any of claims 10-14, further comprising a collapsible dip tube.
17. A method of mixing a fluid in a collapsible container, comprising:
providing a container defining a working volume;
providing an impeller assembly mounted at least partially within said working volume of said container;
placing a collapsible baffle having one or more channels, said channels having holes, within said working volume of said container;
introducing fluid to be mixed into said container to a level only partially submerging said baffle; and
driving said impeller assembly to mix said fluid, wherein said baffle minimizes the formation of any vortex during said mixing.
18. The method of claim 17, wherein said container is a bioreactor.
19. The method of claim 16 or 17, wherein said baffle comprises an X-shaped baffle or a ladder-shaped baffle.
20. The method of claim 16 or 17, wherein said fluid comprises cells.
21. The method of claim 19, wherein said fluid further comprises microcarriers for said cells.
22. The method of claim 16, wherein the one or more channels extend from a first position adjacent a bottom wall on the one or more sidewalls of the container to a second position on one more sidewalls adjacent a top wall of the container at least tangentially opposite that of the first position.
23. The method of any of claims 16, 17, or 21, wherein the container further comprises a collapsible dip tube.
24. The method of any of claims 16, 17 or 21, wherein liquids and/or gases exit the working volume from the one or more channels in said container.