Claims:

1. A tangential flow filtration system comprising:

a tangential flow filtration module;

a storage vessel comprising an input composition;

a tangential flow filtration input supply tube configured to deliver input composition from multiple depths within the storage vessel to the tangential flow filtration module, wherein the tangential flow filtration input supply tube comprises a plurality of inlet ports disposed at different heights within the storage vessel; and

a retentate return tube configured to return TFF retentate from the tangential flow filtration module to the storage vessel.

2. The tangential flow filtration system of claim 1 further comprising a recirculation system separate from the tangential flow filtration module and comprising a recirculation tube having a recirculation tube inlet disposed within the storage vessel at a depth selected to extract contents of the storage vessel and having a recirculation tube outlet disposed inside the storagevessel, wherein the recirculation system is configured such that anything in the recirculation system does not pass through the tangential flow filtration module and wherein the recirculation tube inlet and the recirculation tube outlet are located within in the storage vessel such that passage of the contents of the storage vessel through the recirculation system inhibitsconcentration gradients within the storage vessel.

3. The tangential flow filtration system of claim 2 wherein the recirculation systemfurther comprises a recirculation system pump disposed to pump the contents of the storage vessel through the recirculation system, the recirculation system pump not connected to the tangential flow filtration module.

4. The tangential flow filtration system of claim 2 or claim 3 wherein the recirculation tube comprises at least one additional inlet hole disposed along the length of the recirculation tube.

5. The tangential flow filtration system of any of claims 1 to 4 wherein the tangential flow filtration input supply tube and the retentate return tube terminate at different depths in the

interior of the storage vessel.

6. The tangential flow filtration system of any one of claims 1 to 5 wherein the retentate return tube terminates in the interior of the storage vessel above a storage vessel fill height.

7. The tangential flow filtration system of any one of claims 1 to 5 wherein the retentate return tube terminates in the interior of the storage vessel below a storage vessel fill height.

8. The tangential flow filtration system of any one of claims 1 to 5 wherein the retentate return tube terminates in the interior of the storage vessel proximate a bottom of the storage vessel.

9. The tangential flow filtration system of any one of claims 1 to 8 wherein the retentate return tube is directed towards a side in the interior of the storage vessel.

10. The tangential flow filtration system of any one of claims 2 to 9 wherein the recirculation tube outlet terminates in the interior of the storage vessel above a storage vessel fill height.

11. The tangential flow filtration system of any one of claims 2 to 9 wherein the recirculation tube outlet terminates in the interior of the storage vessel below a storage vessel fill height.

12. The tangential flow filtration system of any one of claims 2 to 9 wherein the recirculation tube outlet terminates in the interior of the storage vessel proximate a bottom of the storage vessel.

13. The tangential flow filtration system of any one of claims 2 to 12 wherein the recirculation tube outlet is directed towards a side in the interior of the storage vessel.

14. The tangential flow filtration system of any of claims 1 to 13 further comprising a diafiltration solution supply tube configured to deliver diafiltration solution to the retentate return tube upstream from the storage vessel.

15. The tangential flow filtration system of any of claims 1 to 14 wherein the tangential flow filtration system and tangential flow filtration module are configured to retain and filtera viscous composition without a substantial concentration gradient in the viscous composition.

16. The tangential flow filtration system of any of claims 1 to 15 further comprising a storage vessel cap, wherein the tangential flow filtration input supply tube and the retentate

return tube extend through the storage vessel cap into the interior of the storage vessel.

17. The tangential flow filtration system of claim 16 wherein the storage vessel cap seals aseptically to the top of the storage vessel.

18. A method for the tangential flow filtration of an input composition, the method comprising:

providing the input composition in a storage vessel, the storage vessel having a top, a bottom, at least one side and an interior and the input composition filling the storage vessel to a desired storage vessel fill height;

providing a tangential flow filtration module;

extracting the input composition from different depths in the storage vessel;

subjecting the extracted input composition to tangential flow filtration to produce a tangential flow filtration retentate; and

returning the tangential flow filtration retentate to the interior of the storage vessel.

19. The method of claim 18 further comprising mixing the input composition in the storage vessel by extracting and returning the input composition from and to the storage vessel.

20. The method of any of claim 18 or claim 19 further comprising mixing the tangential flow filtration retentate with a diafiltration solution before returning the tangential flow filtration retentate to the storage vessel.

21. The method of any of claims 18 to 20 wherein returning the tangential flow retentate to the storage vessel comprises returning the tangential flow filtration retentate to the interior of the storage vessel below the storage vessel fill height.

22. The method of any of claims 18 to 20 wherein returning the tangential flow retentate to the storage vessel comprises returning the tangential flow filtration retentate to the interior of the storage vessel proximate the bottom of the storage vessel.

23. The method of claim 19 wherein mixing the input composition comprises extracting the input composition from different depths within the storage vessel.