CLAIMS

1. A method of increasing the amount of a protein of interest available for recovery from a sample containing other components and following a first purification step of the sample comprising:

passing the sample through a depth filter with a positive charge;

exposing ~~a~~ the depth filter ~~through which the sample has been passed~~ to a~~n~~ salt elution buffer wherein exposure to the salt elution buffer releases the protein of interest from the filter for subsequent recovery.

2. A method of claim 1 further comprising: recovering the released protein of interest from the salt elution buffer.

~~3. A method of claim 1 wherein the elution buffer is a salt elution buffer.~~

43. A method of claim 1 wherein the salt elution buffer has a conductivity of at least 20 mS/cm.

~~5. A method of claim 1 wherein the filter is positively-charged.~~

~~6. A method of claim 1 wherein the filter is a depth filter.~~

74. A method of claim 1 wherein the protein of interest is a therapeutic protein.

85. A method of claim 1 wherein the protein of interest is FVIII.

96. A method of claim 1 wherein the protein of interest is rFVIII.

107. A method of manufacturing and recovering a protein of interest comprising:

recombinantly producing a protein of interest using a host cell within a medium;

filtering the medium using depth filtration;

exposing ~~the~~ a depth filter with a positive charge to a~~n~~ salt elution buffer to release protein of interest from the depth filter;

recovering released protein of interest from the salt elution buffer;

recovering further protein of interest from the sample passed through the depth filter.

~~11. A method of claim 10 wherein the elution buffer is a salt elution buffer.~~

~~12~~8. A method of claim ~~10~~ 7 wherein the salt elution buffer has a conductivity of at least 20 mS/cm.

~~13. A method of claim 10 wherein the filter is positively-charged.~~

~~14~~9. A method of claim ~~10~~ 7 wherein the recombinantly-produced protein of interest is a therapeutic protein.

~~15~~10. A method of claim ~~10~~ 7 wherein the recombinantly-produced protein of interest is rFVIII.

~~16~~11. A method of claim ~~10~~ 7 further comprising:

combining the protein of interest recovered from the salt elution buffer and the protein of interest recovered from the sample passed through the depth filter into a pharmaceutical composition with pharmaceutically acceptable carriers.

~~17~~12. A method of manufacturing a pharmaceutical composition comprising:

recombinantly producing a therapeutic protein of interest using a host cell within a medium;

filtering the medium using a ~~CUNO~~ depth filter with a positive charge;

exposing the depth filter to a salt elution buffer with a conductivity of at least 20 mS/cm to release protein of interest from the depth filter;

recovering released protein of interest from the salt elution buffer;

recovering further protein of interest from the sample passed through the depth filter;

combining recovered protein of interest with pharmaceutically acceptable carriers thereby forming the pharmaceutical composition.

~~18~~13. A method of claim ~~17~~ 12 wherein the salt elution buffer has a conductivity of at least 30 mS/cm.

~~19~~14. A method of claim ~~17~~ 12 wherein the salt elution buffer has a conductivity of at least 50 mS/cm.

~~20~~15. A method of claim ~~17~~ 12 wherein the protein of interest is recombinantly-produced rFVIII.