CLAIMS

1. A process for recovering a poly A-tagged product from a composition comprising said product, which process comprises contacting the composition with a chromatography material comprising convection-based chromatography material functionalised with oligo(dT)-ligands, wherein the material comprises polymer nanofibers and is in the form of one or more membrane(s) or sheet(s), wherein the oligo(dT)-ligand is a (d)T_{10-50} ligand coupled to the chromatography material via a C12 linker.

2. Process according to claim 1, wherein the poly A-tagged product is mRNA or any polymer that carries genetic information to ribosome for translation into an amino acid sequence, i.e. peptide or protein.

3. Process according to claim 1 or 2, wherein the oligo(dT)-ligand is a (d)T_{12-30} ligand.

4. Process according to any one of the preceding claims, wherein the chromatography material is in the form of a membrane or sheet and the composition is passed through a holder or column comprising one or more said membranes or sheets and optionally one or more frits or other spacer materials.

5. Process according to any of the preceding claims, wherein the composition is contacted with the functionalised chromatography material for a period of 1 minute or less, such as down to 10 seconds.

6. Process according to any of the preceding claims, comprising the steps of:

contacting the composition with the functionalised chromatography material;
and
selectively eluting the poly-A tagged product and the product-related impurities by contacting the functionalised chromatography medium with a liquid phase having lower ionic strength than said composition.

7. A process according to any of claims 1 to 5, comprising the steps of:
(i) contacting a solution comprising the composition with the functionalised chromatography material; and
(ii) collecting the solution that has contacted the functionalised chromatography material in step (i), which solution comprises the polyA-tagged product.

8. The process according to claim 6 or 7, wherein the process is repeated at least 10 times without cleaning in place (CIP).

9. A chromatography medium comprising a convection-based chromatography material functionalized with oligo d(T)-ligands, wherein the material comprises polymer nanofibers and is in the form of one or more membrane(s) or sheet(s), wherein the oligo(dT)-ligand is a $(d)T_{10-50}$ ligand, and wherein the chromatography medium comprises a C12 linker between the ligand and the convection-based chromatography material.

10. Chromatography medium according to claim 9, wherein the oligo(dT)-ligand is a $(d)T_{12-30}$ ligand.

11. Chromatography medium according to claim 10, wherein the oligo(dT)-ligand is a $(d)T_{20}$ ligand.

12. Chromatography medium according to any one of claims 9-11, wherein the oligo(dT)-ligand density on the chromatography material is 10-20 μmole/g.

13. Chromatography medium according to any one of claims 9-12, wherein the oligo(dT)-ligand is thiolated or aminated.

14. Chromatography medium according to any one of claims 9-13, wherein the chromatography material comprises one or more non-woven polymer nanofibers, preferably cellulose nanofibers.

15. Chromatography medium according to any one of claims 9-14 wherein at least two membranes or sheets are provided and at least one heat able metal structure is provided between two membranes or sheets.