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(54) **Title**: LIQUID PHASE SEPARATION OF PLASMID DNA ISOFORMS AND TOPOISOMERS

(57) **Abstract**: The invention relates to the use of material comprising a carbamoyl-decorated anion-exchanger ligandwherein a cationic group (C), and a hydrogen donor group (N-H), are connected by a spacer with a length between 3 to 5 atoms, immobilized onto or embedded into a heterogeneous matrix, for the separation of isoforms, topoisomers, oligomeric and multimeric forms of plasmid DNA (p DNA).