

Ruth Rodriguez

**Search history**

Search 1: TAC=(((Factor (XI or XIa)) OR FXI OR FIXa) cation Exchange) and CPC=(C07K16/065) (Results 5)

**Abstract:** Source: US2011293594A The present invention provides novel methods for reducing the serine protease and/or serine protease zymogen content of a plasma-derived protein composition. Also provided are methods for manufacturing plasma-derived protein compositions having reduced serine protease and/or serine protease zymogen content. Among yet other aspects, the present invention provides aqueous and lyophilized compositions of plasma-derived proteins having reduced serine protease and/or serine protease zymogen content. Yet other aspects include methods for treating, managing, and/or preventing a disease comprising the administration of a plasma-derived protein composition having a reduced serine protease or serine protease zymogen content.

**International (IPC-8):** A231J/00 A61K A61K35/16 A61K38/00 A61K38/16 A61K38/17 A61K38/38 A61K38/43 A61K38/46 A61K38/57 A61K39/35 A61K47/18 A61K9/00 A61K9/08 A61K9/10 A61K9/19 A61P13/12 A61P27/02 A61P31/00 A61P37/00 A61P37/02 A61P37/04 A61P7/00 B01D21/26 B01D37/03 C07K1/00 C07K1/14 C07K1/18 C07K1/30 C07K1/32 C07K1/36 C07K14/00 C07K14/16 C07K14/47 C07K14/745 C07K14/76 C07K14/81 C07K16/00 C07K16/06 C07K17/00 C12N9/16 C12N9/18 C12Q1/56 G01N33/68 (Advanced/Invention); C07K1/14 C07K1/18 C07K1/34 (Advanced/Non-invention); A61K39/395 A61P37/00 C07K1/00 C07K16/06 (Core/Invention); B01D21/26 B01D37/03 C07K1/36 (Core/Non-invention); A61K C07K (Subclass/Invention)

**CPC:** A61K38/1725 C07K14/472 C07K1/14 C07K1/18 C07K1/34 A61K39/39525  
A61K9/0019 A61K9/08 A61K35/16 A61K38/1709 A61K47/183 C07K1/30 C07K1/36  
C07K16/065 A61K38/17

**European:** A61K35/16 A61K38/17A2 A61K47/18B A61K9/00M5 A61K9/08 C07K1/30 C07K1/36 C07K16/06A  
**US:** 424/130.1 424/130.100P 424/177.1 424/177.100P 424/94.6 424/94.600P 435/19 435/197S 514/15.2 514/15.200S 514/15.3 514/15.300S 530/352 530/369 530/369S 530/380 530/380S 530/387.1 530/387.100S 530/389.1 530/390.5 530/390.500S 530/395 530/412 530/416 530/418 530/424



| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AR076800 AA        | 20110706         | AR2010P101844      | 20100527         |
| AR082093 AA        | 20121114         | AR2011P101811      | 20110526         |
| AT514675 A2        | 20150215         | AT20140050852      | 20100723         |
| AU2010202125 BA    | 20100902         | AU201002020125     | 20100526         |
| AU2010224461 AA    | 20101021         | AU20100224461      | 20100929         |
| AU2010224461 BB    | 20110804         | AU20100224461      | 20100929         |
| AU2011258111 AA    | 20111201         | AU20110258111      | 20110526         |
| CA2800155 A        | 20121121         | CA20102800155      | 20100527         |
| CA2800272 AA       | 20121121         | CA20112800272      | 20110526         |
| CL2012003290 A1    | 20131018         | CL20120003290      | 20121123         |
| CL2012003291 A1    | 20131004         | CL20120003291      | 20121123         |
| CL2014003430 A1    | 20150504         | CL20140003430      | 20141217         |
| CN102970975 A      | 20130313         | CN201080067929     | 20100527         |
| CN102970975 B      | 20150506         | CN201080067929     | 20100527         |
| CN103068365 A      | 20130424         | CN201180036374     | 20110526         |
| CN103068365 B      | 20150708         | CN201180036374     | 20110526         |
| CO6660438 A2       | 20130430         | CO20120212751      | 20121123         |
| CO6660439 A2       | 20130430         | CO20120212759      | 20121123         |
| DK2445482 T3       | 20140922         | DK20100727539T     | 20100527         |
| DK2554160 T3       | 20150427         | DK20100190138T     | 20100527         |
| DK2575762 T3       | 20141013         | DK20110729200T     | 20110526         |
| EA201291355 A1     | 20130430         | EA20120091355      | 20100527         |
| EA201291367 A1     | 20130930         | EA20120091367      | 20110526         |
| EP2445482 A1       | 20120502         | EP20100727539      | 20100527         |
| EP2445482 B1       | 20140827         | EP20100727539      | 20100527         |
| EP2554160 A1       | 20130206         | EP20120190138      | 20100527         |
| EP2554160 B1       | 20150225         | EP20120190138      | 20100527         |
| EP2575762 A2       | 20130410         | EP20110729200      | 20110526         |
| EP2575762 B1       | 20140709         | EP20110729200      | 20110526         |
| EP2796128 A1       | 20141029         | EP20140166189      | 20110526         |
| EP2803349 A1       | 20141119         | EP20140176511      | 20100527         |
| ES2505465 T3       | 20141010         | ES20110729200T     | 20110526         |
| ES2525492 T3       | 20141223         | ES20100727539T     | 20100527         |
| ES2536093 T3       | 20150520         | ES20120190138T     | 20100527         |
| HK1170168 A1       | 20150130         | HK20120110936      | 20121031         |
| HK1183449 A1       | 20150130         | HK20130110932      | 20130925         |
| HR20140944 T1      | 20141205         | HR20140000944      | 20140930         |
| HR20141109 T1      | 20141219         | HR20140001109      | 20141114         |
| IL223149 A0        | 20130203         | IL20120223149      | 20121120         |
| IL223150 A0        | 20130203         | IL20120223150      | 20121120         |
| JP2013527201 T2    | 20130627         | JP20130512585T     | 20100527         |
| JP2013528183 T2    | 20130708         | JP20130512262T     | 20110526         |
| KR20130080450 A    | 20130712         | KR20127033758      | 20100527         |
| KR20130109016 A    | 20131007         | KR20127033759      | 20110526         |
| MX2012013682 A1    | 20130128         | MX20120013682      | 20121126         |
| MX2012013689 A1    | 20130128         | MX20120013689      | 20121126         |
| PT2445482 T        | 20141103         | PT20100727539T     | 20100527         |
| PT2575762 T        | 20140728         | PT20110729200T     | 20110526         |
| SG185724 A1        | 20130130         | SG20120008624      | 20100527         |
| SG185725 A1        | 20121228         | SG20120008625      | 20110526         |
| TW201141879 A      | 20111201         | TW20100117123      | 20100527         |
| TW201202263 A      | 20120116         | TW20110118581      | 20110526         |

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|-----------------|----------|---------------|----------|
| US2011293594 AA | 20111201 | US20110117028 | 20110526 |
| US2011293598 AA | 20111201 | US20110085056 | 20110412 |
| US2011293638 AA | 20111201 | US20100789365 | 20100527 |
| US2013078264 AA | 20130328 | US20120633697 | 20121002 |
| US2013101579 AA | 20130425 | US20120653332 | 20121016 |
| US2013102537 AA | 20130425 | US20120633057 | 20121001 |
| US2013195897 AA | 20130801 | US20130830815 | 20130314 |
| US2013224184 AA | 20130829 | US20130830862 | 20130314 |
| US2013303731 AA | 20131114 | US20130830918 | 20130314 |
| US2014336122 AA | 20141113 | US20140296319 | 20140604 |
| US2015133644 AA | 20150514 | US20140309668 | 20140619 |
| US8772462 BB    | 20140708 | US20110117028 | 20110526 |
| US8796430 BB    | 20140805 | US20110085056 | 20110412 |
| US8822656 BB    | 20140902 | US20130830918 | 20130314 |
| US8889838 BB    | 20141118 | US20130830815 | 20130314 |
| US8921520 BB    | 20141230 | US20120633697 | 20121002 |
| US8940877 BB    | 20150127 | US20120653332 | 20121016 |
| US8993734 BB    | 20150331 | US20100789365 | 20100527 |
| WO11149472 A1   | 20111201 | WO2010US36470 | 20100527 |
| WO11150284 A2   | 20111201 | WO2011US38247 | 20110526 |
| WO11150284 A3   | 20120524 | WO2011US38247 | 20110526 |

**Priority:**

|                |          |               |          |               |          |
|----------------|----------|---------------|----------|---------------|----------|
| US20090227968P | 20090723 | AU20100202125 | 20100526 | WO2010US36470 | 20100527 |
| EP20100727539  | 20100527 | US20100789365 | 20100527 | US20100842944 | 20100723 |
| AU20100224461  | 20100929 | US20110085056 | 20110412 | WO2011US38247 | 20110526 |
| AU20110258111  | 20110526 | US20120633697 | 20121002 | US20120633057 | 20121001 |
| US20110117028  | 20110526 | EP20110729200 | 20110526 | US20120653332 | 20121016 |
| US20130830815  | 20130314 | US20130830862 | 20130314 | US20130830918 | 20130314 |
| US20140296319  | 20140604 | US20140309668 | 20140619 |               |          |

**Probable Assignee:** BAXTER HEALTHCARE SA

**Assignee(s):** (std): BAXTER HEALTHCARE SA ; BAXTER INT ; MADLENER RUTH ; BRUCKSCHWAIGER LEOPOLD ; GRAUSENBURGER REINHARD ; BUTTERWECK HARALD ARNO ; KOELBL BERNHARD ; GUNDINGER THOMAS ; GRAUSENBURGER REINHARD ; PLJEVLJAKOVIC AZRA ; TESCHNER WOLFGANG ; SVATOS SONJA ; SCHWARZ HANS PETER ; WEBER ALFRED ; NUERNBERGER JULIA ; N E UML U EE RNBERGER JULIA ; BAXTER HEALTHCARE CORP

**Assignee(s):** BAXTER HEALTHCARE S A ; N AND E UML U AND EE RNBERGER JULIA ; BAXTER INTERNATIONAL INC. ; BAXTER INT INC

**Inventor(s):** (std): SCHWARZ DR HANS PETER ; SCHWARZ HANS ; SCHWARZ HANS PETER DR ; SONJA SVATOS ; TESCHNER DR WOLFGANG ; TESCHNER WOLFGANG DR ; THOMAS GUNDINGER ; WEBER ALFRED ; WOLFGANG TESCHNER ; TESCHNER WOLFGANG ; SVATOS SONJA ; SCHWARZ HANS PETER ; RAMACHANDRAN SINDHU ; PLJEVLJAKOVIC ARZA ; NUMBERGER JULIA ; ARNO BUTTERWECK HARALD ; AZRA PLJEVLJAKOVIC ; BERNHARD KOELBL ; BRUCKSCHWAIGER LEOPOLD ; BUTTERWECK HARARLD ARNO ; JULIA NUMBERGER ; KOELBL BERHARD ; LEOPOLD BRUCKSCHWAIGER ; MADLENER RUTH ; N E UML U EE RNBERGER JULIA ; NUERNBERGER JULIA ; NURNBERGER JULIA ; PETER PLJEVLJAKOVIC AZRA ; PLJEVLJAKOVIC AZRA ; REINHARD GRAUSENBURGER ; GRAUSENBURGER REINHARD ; HANS PETER SCHWARZ ; KOELBL BERNHARD ; JOHNSON RICHARD ; GUNDINGER THOMAS ; GRAUSENBURGER REINHARD ; BUTTERWECK HARALD ARNO ; BRUCKSHWAIGER LEOPOLD ; BAIRSTOW SHAWN F ; NURNBERG KASPAR BERG

**Inventor(s):** ALFRED WEBER ; ARZA PLJEVLJAKOVIC ; HARALD ARNO BUTTERWECK ; JULIA NUERNBERGER ; RUTH MADLENER ; N AND E UML U AND EE RNBERGER JULIA ; N AND EUML U AND EE RNBERGER JULIA ; DESIGNATION OF INVENTOR HAS NOT YET BEEN FILED ; LEOPOLD BRUCKSHWAIGER

**Agent(s):** HOFFMANN EITL; MORGAN LEWIS AND BOCKIUS LLP; PARENT ANNETTE S ET AL; PARENT ANNETTE S

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**Title:** IMMUNOGLOBULIN REDUCED IN THROMBOGENIC AGENTS AND PREPARATION THEREOF

**Abstract:** Source: US2012294847A The invention relates to an immunoglobulin composition reduced in thrombogenic agents and to methods for its preparation. One method comprises subjecting an immunoglobulin containing solution to a negative cation exchanger chromatography at a pH in the range of higher than 3.8 to equal to or lower than 5.3. The solution can also be subjected to a negative anion exchanger chromatography at a pH in the range of 7 to 8.2.

**Classifications:**

**International (IPC 8-9):** A61K39/00 A61K39/395 A61P29/00 A61P31/00 C07K C07K1/14 C07K1/16 C07K1/18 C07K16/00 C07K16/06 (Advanced/Invention); C07K C12N (Subclass/Invention)

**CPC:** A61K39/39591 C07K1/18 C07K16/065 Y10S530/83 Y10S530/831

**US:** 424/130.1 530/387.1 530/412 530/413 530/416 530/830 530/831

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AU2012257371 AA    | 20121122         | AU20120257371      | 20120514         |
| CA2836322 AA       | 20131115         | CA20122836322      | 20120514         |
| CN103534264 A      | 20140122         | CN201280023471     | 20120514         |
| EP2710026 A2       | 20140326         | EP20120726891      | 20120514         |
| IL212911 A0        | 20110731         | IL20110212911      | 20110516         |
| IL229135 A0        | 20131231         | IL20130229135      | 20131029         |
| IN09363DN2013 A    | 20141219         | IN2013DN09363      | 20131030         |
| JP2014516031 T2    | 20140707         | JP20140510943T     | 20120514         |
| RU2013155595 A     | 20150627         | RU20130155595      | 20120514         |
| US2012294847 AA    | 20121122         | US20120470788      | 20120514         |
| US9023994 BB       | 20150505         | US20120470788      | 20120514         |
| WO12156963 A2      | 20121122         | WO2012IL00189      | 20120514         |
| WO12156963 A3      | 20130502         | WO2012IL00189      | 20120514         |

**Priority:**

IL20110212911 20110516 US20110486386P 20110516 US20110550581P 20111024  
US20120470788 20120514 WO2012IL00189 20120514 IL20130229135 20131029

**Probable Assignee:** OMRIX BIOPHARMACEUTICALS LTD

**Assignee(s):** (std): BAR LILIANA ; BELYAEV OLEG ; MEIDLER ROBERTO ; MEIDLER ROBERTO ; MINTZ RONI ; OMRIX BIOPHARMACEUTICALS LTD ; NUR ISRAEL

**Inventor(s):** (std): BAR LILIANA ; BELYAEV OLEG ; MEIDLER ROBERTO ; MEIDLER ROBERTO ; MINTZ RONI ; NUR ISRAEL

**Agent(s):** KIRSCH SUSAN EDITH; CHITLARU EDITH

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**Title:** METHOD FOR REDUCING THE THROMBOEMBOLIC POTENTIAL OF A PLASMA-DERIVED IMMUNOGLOBULIN COMPOSITION

**Abstract:** Source: US2013058961A The present invention provides methods for reducing the amidolytic and anti-complement activity (ACA) content of an immunoglobulin composition through the use of cation exchange chromatography. In a specific embodiment, the invention provides methods for reducing the **Factor XI** and/or Factor **XIa** and/or ACA content of an immunoglobulin composition by collecting the leading portion of a cation exchange eluate. The present invention also provides immunoglobulin composition having reduced levels of amidolytic activity, **Factor XI**, and/or Factor **XIa**, and/or ACA content.

**Classifications:**

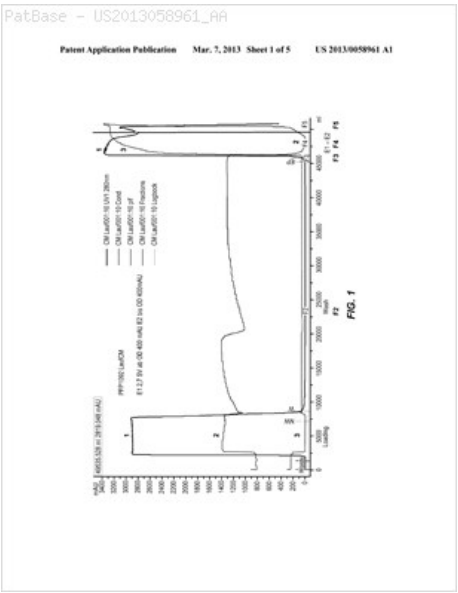
**International (IPC 8-9):** A61K35/16 A61K39/395 A61P29/00 A61P31/00 A61P37/06 B01D15/36 C07K C07K1/14 C07K1/18 C07K14/745 C07K16/06

C07K16/18 (Advanced/Invention);

C07K (Subclass/Invention)

**CPC:** C07K16/065

**US:** 424/177.1



**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| AR087953 AA        | 20140430         | AR2012P103162      | 20120827         |
| AU2012300220 AA    | 20130307         | AU20120300220      | 20120827         |
| CA2846599 AA       | 20140225         | CA20122846599      | 20120827         |
| CL2014000480 A1    | 20141003         | CL20140000480      | 20140226         |
| CN103874708 A      | 20140618         | CN201280050156     | 20120827         |
| CO6920256 A2       | 20140410         | CO20140060700      | 20140320         |
| EA201400273 A1     | 20140829         | EA20140000273      | 20120827         |
| EP2748193 A1       | 20140702         | EP20120768938      | 20120827         |
| HK1199267 A1       | 20150626         | HK20140112763      | 20141222         |
| IL231083 A0        | 20140331         | IL20140231083      | 20140223         |
| JP2014525417 T2    | 20140929         | JP20140527355T     | 20120827         |
| KR20140062088 A    | 20140522         | KR20147007936      | 20120827         |
| MX2014002204 A1    | 20140611         | MX20140002204      | 20140225         |
| TW201326192 A      | 20130701         | TW20120130949      | 20120827         |
| US2013058961 AA    | 20130307         | US20120595967      | 20120827         |
| WO13033042 A1      | 20130307         | WO2012US52567      | 20120827         |

**Priority:**

US20110527974P 20110826 WO2012US52567 20120827 US20120595967 20120827

**Probable Assignee:** BAXTER HEALTHCARE SA

**Assignee(s):** (std): BAXTER HEALTHCARE CORP ; BAXTER HEALTHCARE SA ; BAXTER INT ; SCHWARZ HANS PETER ; HOFBAUER LUCIA ; TESCHNER WOLFGANG ; KOELBL BERNHARD ; BUTTERWECK HARALD ARNO

**Assignee(s):** BAXTER INTERNATIONAL INC ; BAXTER INT INC Y BAXTER HEALTHCARE SA ; BAXTER INT INC ; BAXTER HEALTHCARE S A

**Inventor(s):** (std): BUTTERWECK HARALD ARNO ; HANS PETER SCHWARZ ; HARALD ARNO BUTTERWECK ; HOFBAUER LUCIA ; KOELBL BERNHARD ; LUCIA HOFBAUER ; SCHWARZ HANS PETER ; TESCHNER WOLFGANG ; WOLFGANG TESCHNER ; BERNHARD KLBL

**Inventor(s):** BERNHARD KOELBL

**Agent(s):** HOFFMANN EITL; PARENT ANNETTE S

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**Title:** METHOD FOR THE PURIFICATION OF A (BLOOD) PLASMA PROTEIN

**Abstract:** The invention relates to a single-stage method for the purification of a (blood) plasma protein from a mixture containing said (blood) plasma protein, comprising the steps of applying the (blood) plasma protein to a sorbent, which comprises a solid carrier material the surface of which is functionalized with benzopyrrole groups and 3-azepyrrole groups, and eluting the (blood) plasma protein from the sorbent. The method is especially suitable for removing blood constituents such as IgA, IgM and factor XI and factor XIA which are bound to the sorbent while the (blood) plasma protein to be purified does not bind to the sorbent or only slightly binds to the sorbent. It is possible to purify the product in a simple flow through step while achieving high yields and degrees of purity with high loading capacities.

**Classifications:**  
**International (IPC 8-9):** C07K1/16 C07K14/435 C07K16/06 G01N30/60 (Advanced/Invention)  
**CPC:** C07K1/22 G01N33/5002 C07K16/065

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| DE102012022233 A1  | 20140515         | DE201210022233     | 20121114         |
| WO14076199 A2      | 20140522         | WO2013EP73864      | 20131114         |
| WO14076199 A3      | 20141023         | WO2013EP73864      | 20131114         |

**Priority:**

DE201210022233 20121114

**Probable Assignee:** INSTRACTION GMBH

**Assignee(s):** (std): INSTRACTION GMBH ; PREVIPHARMA AG

**Inventor(s):** (std): MUELLER DIRK ; MUELLER DIRK DR

**Agent(s):** STOLMAR AND PARTNER

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**Title:** SINGLE-STAGE METHOD FOR THE PURIFICATION OF (BLOOD) PLASMA PROTEINS SUCH AS ALBUMIN FROM MIXTURES

**Abstract:** The invention relates to a single-stage method for the purification of a (blood) plasma protein from a mixture containing said (blood) plasma protein, comprising the steps of applying the (blood) plasma protein to a sorbent, which comprises a solid carrier material the surface of which is functionalized with pyridino-4-carboxamide groups and 3-carboxamidopropionic acid groups, and eluting the (blood) plasma protein from the sorbent. The present invention provides a simple and inexpensive method for the purification of such (blood) plasma proteins, the method being characterized by the additional advantage of a substantially complete removal of factor **XI** and factor **XIa** from the (blood) plasma protein.

**Classifications:**  
**International (IPC 8-9):** C07K1/16 C07K16/06 G01N30/60 (Advanced/Invention)  
**CPC:** C07K1/22 G01N33/5002 G01N33/538 G01N33/54306 C07K16/065

**Family:**

| Publication number | Publication date | Application number | Application date |
|--------------------|------------------|--------------------|------------------|
| DE102012022234 A1  | 20140515         | DE201210022234     | 20121114         |
| WO14076202 A2      | 20140522         | WO2013EP73867      | 20131114         |
| WO14076202 A3      | 20141023         | WO2013EP73867      | 20131114         |

**Priority:**

DE201210022234 20121114

**Probable Assignee:** INSTRACTION GMBH

**Assignee(s):** (std): INSTRACTION GMBH ; PREVIPHARMA AG

**Inventor(s):** (std): MUELLER DIRK ; MUELLER DIRK DR

**Agent(s):** STOLMAR AND PARTNER

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW