

**Russian Biological Agent Related Patents**

**Compiled by Mark Gorwitz**

## **Russian Biological Agent Related Patents**

### **Cultivation Studies:**

Method Regulating pH of a Suspension of Mammalian Cell Cultures

Author's Certificate No. 212454, 1968, Blatov V A, Belov B I, Vasilyev N N, Zybin V D

Flotation Apparatus for Isolating Microorganisms from Cultivation Liquid

SU610861, 06/15/1978, Marakov Yuriy P, Voinov Vadim A, Sirotnikov Semen Z,  
Vasilev Valentin A, VN Proizv PK OB Gidrolizprom

Device for Cultivation of Cellular and Virus Cultures

SU644822, 01/30/1979, Kuznetsov Pavel P, Senko Evgenij F, Lukina Viktoriya A, VNI  
T I Biolog Promy

Method Sorbent Preparation

SU671385, 04/05/1980, Borisova V N, Bressler S E, Golovina N S, Kolikov V M,  
Krasilnikov I V, Molodkin V M, Molodkina L M, Mchedlishvili B V, Nakhapety L A,  
Elbert LB, Institut Poliomielifita Virusnykh EN; LE Polt I IM M I Kalinina; Vsevoyuznyj  
NI Biotekhnicheski

Apparatus for Culturing Cells and Virus

SU751827, 07/30/1980, Khudyakov Garibaldi, Filin Yuriy, VNI Yashchurnyj Institute

Ajitating Apparatus

SU814430, 03/23/1981, Institut Poliomielifita Virusnykh EN

Apparatus for Culturing Cell Cultures in Monolayers

SU897850, 01/15/1982, Kovalenko V M, Zavalnyj M A, Institut Poliomielifita Virusnykh  
EN

Method for Concentrating and Purifying Viral Suspensions

SU975795, 11/23/1982, Reshetov Petr D, Zhigis Larisa S, Khokhlov Aleksandr S,  
Noskov Fridrikh S, Krashenyuk Albert I, Zherbun Anatolij B, Chistyakov Aleksandr V,  
Zotin Vladimir V, Institute Bioorg Chimii, LE NII Epidemiologii Mikrobiol

Line of Re-Grafted Spleen Cells of Adult Green Maromset 455 Used for Culturing  
Viruses

SU984214, 09/30/1983, Mironova L L, Khapchaev Y K, Popova V D, Institut  
Poliomielifita Virusnykh EN

Method for Preparing Hybrids of Somatic Cells

SU984215, 09/30/1983, Mustafina A N, Lashkevich VA, Institut Poliomielifita Virusnykh  
EN

Method of Preparing Sorbent for Cleaning Viral Suspensions  
SU1071306, 02/07/1984, Borisova V N, Krasilnikov I V, Mchedlishvili B V,  
Nakhapetyan L A, Elbert L B, Institut Poliomielifita Virusnykh EN; VNI Biotekh Institut

Method of Preparing Base for Microbiological Nutrient Media  
SU1280007, 12/30/1986, Vinogradov Evgenij YA, Korotkova Rita M, Kleganov  
Vladimir K, Slatin Evgenij A, Nyanikova Galena G, NII Epidemiolog Mikrobiolog

Man's Embryo Skin and Muscle Diploid Cells Strain Used for Cultivating Viruses  
SU1317021, 06/15/1987, Mironova L L, Preobrazhenskaya N K, Grachev V P, Stobetskij  
V I, Kryuchkova G P, Ivannikova N M, Malygina I G, Popova V D, Ralf N M, Alpatova  
G A, Dzagurov S G, Lomanova G A, Shalunova N V, Nikolaeva MA, Institut  
Poliomielifita Virusnykh EN; GNII Standatizat Kontrol

Method of Aerating Cultural Liquid in Process of Deep Cultivation of Animal Cells or  
Microorganisms  
SU1346671, 10/23/1987, Ruban Evgenij A, Sokolov Vyacheslav P, Leshonok Nikolaj F,  
Ivanov Viktor S, Bogina Elena V, Abramov Aleksandr B, VNI T I Biolog Promy,  
Groznsk N Proizv OB Promav

Strain Taurus-1 of Heteroploid Cells of Calf Kidney Used for Virus Cultivation  
RU1347448, 04/10/1995, Mironova L L, Preobrazhenskaya N K, Shitikova G S,  
Stobetskij V I, Karmysheva V Y, Popova V D, Alpatova G A, Ponomareva N P,  
Demkina M M, Kudinova S I, Malygina I G, Institut Poliomielifita Virusnykh EN

Strain of Cultivable Cells of Human Embryo Liver for Accumulating and Titering Vernal  
Encephalitis Virus  
SU1360193, 08/07/1989, Miryutova T L, Arkina M A, Kuzmichenko M I, Popova N A,  
TOM NII Vaktsin Syvorotok

Method Cultivating Cells of Human Brain  
SU1387404, 09/23/1991, Luriya E A, Kuznetsov S A, Genkova E N, Fridenshtejn A YA,  
NII Epidemiolog Mikrobiolog, Institut Khim FIZ AN SSSR

Installation for Seeding Microorganisms Onto Nutritive Medium for Their Counting  
SU1446151, 12/23/1988, Chakhava Otari V, Trapezov Evgenij V, Egorov Matvej A, NII  
Epidemiolog Mikrobiolog

Method of Producing Gelatin Microcarriers for Cell Cultivation  
SU1486515, 06/15/1989, Turkin Sergej I, Lukin Yuriy V, Markvicheva Elena A, Ali-  
Zade Rasim A, Zubov Vitalij P, Skuinsh Ajvar G, Klyaninsh Maris K, Zitsmanis  
AndrisKH, Institute Bioorg Chimii, Proizv OB Biolar N

Nutrient Medium for Cultivation of Human Animal Cells  
SU1520095, 11/07/1989, Vitols Guntis YA, Dulmanis Valdis G, Stengrevits Olafs A,  
Proizv OB Biolar N

Method Cleaning Virus Suspension from Cell DNA

SU1532050, 12/30/1989, Terletsкая E N, Elbert L B, Timofeev A V, Kusov Y Y, Kazachkov Y A, Amosenko F A, Svitkin Y V, Khapchaev Y K, Mironova L L, Krutyanskaya G L, Balayan M S, Lashkevich V A, Institut Poliomiелita Virusnykh EN

Apparatus for Growing Microorganisms

SU1535890, 01/15/1990, Korneev Aleksandr D, Karasev Vasilij S, Popov Viktor G, Kuznetsov Anatolij M, Guslyakov Viktor L, VNI PK I Prikladnoj Biokhim

Method for Cultivation of Microorganisms

SU1551729, 03/23/1990, Korneev Aleksandr D, Karasev Vasilij S, Korneev Sergej D, Aleksandrov Vladimir S, VNI PK I Prikladnoj Biokhim

Method of Continuous Sterilization of Liquid

SU1556682, 04/15/1990, Korneev Aleksandr D, Daragan Vladimir P, Prilepskij Boris V, Chegodaev Fedor N, Popov Viktor G, Berdskij Khim Z, VNI PK I Prikladnoj Biokhim

Strain of Cultured Sheep Embryo Cells for Propagation of Viruses

SU1559700, 12/15/1994, Konyushko O I, Mironova L L, Popova V D, Karmysheva V Y, Alpatova G A, Sobolev S G, Institut Poliomiелita Virusnykh EN

Strain of Cultivable Cells of Skin and Muscles of African Green Marmoset for Virus Reproduction

SU1583440, 08/07/1990, Mironova L L, Goldrin N E, Kudinova S I, Stobetskij V I, Orlova T M, Chernyshev V I, Popova V D, Karmysheva V Y, Aplatova G A, Baranova G P, Institut Poliomiелita Virusnykh EN

Method Determination of Growing Properties of Cattle Serum

RU1632037, 11/15/1994, Mironova L L, Preobrazhenskaya N K, Institut Poliomiелita Virusnykh EN

Strain of Cultured Heart and Tongue Cells of Embryo Cercopithecus Aethiops, Used for Viruses Growing

SU1693044, 11/23/1991, Mironova L L, Goldrin N E, Kashlikova V I, Kuznetsova N V, Kudinova S I, Stobetskij V I, Khoroshikh E M, Miryutova T L, Chernyshev V I, Karmysheva V Y, Popova V D, Alpatova G A, Institut Poliomiелita Virusnykh EN; Tom NII Vaktsin Syvorotok

Process for Cultivating of Microorganisms in Two-Capacity Countercirculating Apparatus

SU1693064, 11/23/1991, Nesterov Boris F, Proizv OB Biolog Priborostroen

Method of Estimating Suitability of Microcarrier for Cultivating Animal Cells

SU1703685, 01/07/ 1992, Turkin Vladimir V, Faustov Vladimir S, Sorokin Sergej V, Ukraintsev Anatolij D, Makarov Vladimir A, VNI PK I Prikladnoj Biokhim

Device for Aeration of Liquid

SU1712400, 02/15/1992, Korneev Aleksandr D, VNI PK I Prikladno Biokhim

Method for Concentrating Biological Objects in Suspensions

SU1712856, 02/15/1992, Generalov Vladimir M, Bakirov Talgat S, Chermashentsev Valerij M, VNII Molekulyarnoj Biolog

Method for Concentrating Biological Objects in Suspensions

SU1712855, 02/15/1992, Generalov Vladimir M, Bakirov Talgat S, Chermashentsev Valerij M, VNII Molekulyarnoj Biolog

Method for Mammalian Cells Cultivation in the Polymeric Granules

SU1721088, 03/23/1992, Markvicheva Elena A, Kuzkina Irina F, Plechko Tatyana N, Ambrosova Svetlana M, Kirsh Yuriy E, Karaputadze Timur M, Zavalnyj Mikhail A, Simakova Galina A, Gritskova Inessa A, Zubov Vitalij P, Turkin Sergej I, Sterligova Natalya N, Institut Bioorg Chimii, Institut Tonkoj Khim T IM M V LOMO

Apparatus for Cultivating Cells

SU1726508, 04/15/1992, Bodin Boris YA, Aksyutin Sergej D, Filatov Viktor I, VNI Yashchurnyj Institute

Method for Preparation of Sterile Surface, Made of Polystyrene, Useful for Monolayer Cultivation of Mammalian Cells

SU1763486, 09/23/1992, Blinova Miralda I, Kuzmina Natalya P, Nechitajlo Vladimir S, Lobko Valerij V, Chadov Aleksandr V, Gromov Aleksandr D, Matyushin Gennadij A, VNII Med Polimerov

Apparatus for Cultivation of Cells of Tissue or Microorganisms

SU1779690, 12/07/1992, Kislykh Vasilij I, Badaev Boris N, Repkov Andrej P, Vorobev Igor D, Kharchenko Valerij A, VNII Molekulyarnoj Biolog

Method of Mammalian Serum Blood Preparing for Cultivation of Mammalian Tissue Cells

SU1813783, 05/07/1993, Guryanov Nikolaj I, Yusupov Rasikh KH, Koxsin Valdimir P, Guryanova Valentina A, Ilyasova Gulfiya KH, Vsesoyuznyj NI Veterinarnyj I

Method of Virus Concentration

SU1834289, 04/27/1996, Dudnikov A I, Gusev A A, Bakhutashvili T O, Shipilov V I, Mikhailishin V V, Vesoyuznyj NI Yashchurny, Vsesoyuznyj NI Yashchurnyj I

Unit for Cultivation of Animal, Plant, or Microbial Cells

SU1838401, 08/30/1993, Markvichev Nikolaj S, Manakov Mikhail N, Korostelev Vitalij V, Zajko Majya L, Arsentev Andrej V, Mitichkin Oleg V, Prostova Galina A, Zelenshchikov Dmitriy B, Krivoshein Yuriy S, Melnichenko Elena G, GOL K B N Proizv OB Edineniya, Gol K B N Proizv OB Edineniya

Method of Microorganisms Cultivation and Apparatus for its Realization  
RU2008347, 02/28/1994, Kornnev Alewksandr D, Alibekov Kanatzhan B, Zhzenova  
Aleksandra V, Salyatov Yuriy P, Gromov Gennadij A, Aktsionernoje Obshestvo Dzerz

Three-Dimensional Bioactive Carrier for Mammalian Cells and Tissue Cultivation  
RU2014359, 06/15/1994, Radyukhin Viktor A, Golubkov Sergeij P, Zinovev Vladimir V,  
Kokorevskaya Olga A,

Bioreactor for Cultivation of Cells on Microcarriers  
RU2050415, 12/20/1995, Maksimov Mikhail, Popov Yuriy A, Khokholov Anatolij M,  
Shvyakov Aleksandr A, Shishkov Mikhail I, N Proizv OB Edinenie Biolog PR

Strain of Cultured Kidney Cells of *Oryctolagus Cuniculus* L for Mammalian Viruses  
Cultivation  
RU2065496, 08/20/1996, Gerasimov Viktor N, Gerasimova Natalya I, Khudyakov  
Garibaldi A, Ivanyushchenkova Inga V, Fedorova Elena E, Vserossijskij NII Zashchity  
ZH

Method of Cell Culture Preparing  
RU2067995, 10/20/1996, Balakhnin S M, Zinovev V V, Malygin E G, Matskova L V,  
Ovechkina L G, Podchernyaeva R Y, Popova S R, Sandakhchiev L S, Tsareva A A,  
Yurchenko N D, Vsesoyuznyj NII Molekulyarnoj

Method of Phylovirus Suspension Culturing in Cell Culture on Microcarriers  
RU2076905, 04/10/1997, Tikhonov Valerij YA, Kotov Aleksandr N, N Proizv OB  
Edinenie Vektor

Method Preparing the Nutrient Medium for Human Blood Lymphocytes Culturing  
RU2084523, 07/20/1997, Mazurkova N A, Frolova I V, Troshkova G P, Kamshij L P,  
Ginzburg I A, Gosudarstvennyj Nauchnyj Tsentr Virusologii I Biotekhnologii "Vektor"

Method of Preparing the Solid Nutrient Medium for Microorganism Culturing  
RU2092552, 10/10/1997, Pimenov E V, Lazykin A G, Cherkasov N A, Kovtun A L,  
Rogozhin A Z, Nesterov J E, Kuznetsov V G, Nauchno-Issledovatel'skij Institut  
Mikrobiologii Ministerstva Oborony RF

Method for Preparing Dry Sterile Nutrient Media for Growing Cell Cultures  
RU2107724, 03/27/1998, Kamshij L P, Troshkova G P, Leljak A I, Frolova I V, Sorokina  
E A, Gosudarstvennyj Nauchnyj Tsentr Virusologii I Biotekhnologii "Vektor"

Apparatus for Suspension Cultivation of Cells of Tissues and Microorganisms  
RU2135579, 08/27/1999, Kislykh V I, Ramazanov J A, Repkov A P, Gosudarstvennyj  
Nauchnyj Tsentr Virusologii I Biotekhnologii "Vektor"

Method for Storing Cellular Cultures in Suspension

RU2158759, 11/10/2000, Timofeev I V, Perminova N G, Djadin J A, Zhurko F V, Gosudarstvennyj Nauchnyj Tsentr Virusologii I Biotekhnologii "Vektor"

Method Preparing Sterile Liquid Nutrient Medium Based on Enzymatic Hydrolyztae

RU2161649, 01/10/2001, Bogrjantseva M P, Troshkova G P, Mazurkova N A, Nochevnyj V T, Martynets L D, Sirotkina T B, Gosudarstvennyj Nauchnyj Tsentr Virusologii I Biotekhnologii "Vektor"

### **Drying Studies**

Method of Drying Biological Materials

RU2043587, 09/10/1995, Grigorenko A I, Kramskoj N V, Koloskov A V, Makhraj A A, Gorishnij A P, Ashmarin I P, Virusologicheskij tsentr Nauchno-Issledovatel'skogo Instituta Mikrobiologii Ministerstva Oborony RF

Method of Drying of Biological Materials

RU2044239, 09/20/1995, Grigorenko A I, Krasnjanski V P, Podkujko V N, Mikhajlov V V, Kurlov A M, Virusologicheskij tsentr Nauchno-Issledovatel'skogo Instituta Mikrobiologii

Dryer for Thermolabial Materials

RU2056603, 03/20/1996, Georgievich V N, Pavlovich B N

### **Lyophilization Studies:**

Centrifugal Device for Freezing Biomaterials

SU1054637, 11/15/1983, Kravchenko Vladimir M, Taranenko Aleksandr G, VNI Yashchurnyj Institute

Method for Determing Virus Dehydration Tolerance

SU1758074, 08/30/1992, Zolotykh Sergej I, Solodkij Vladislav V, Zelenkov Valerij n, VNII Molekulyarnoj Biolog N PR

Stabilizing Composition for Preparation of Lyophilized Preparations on Basis of Equine Venezuelan Encephalomyelitis Cultural Virus

SU1761800, 09/15/1992, Frolov Vladimir G, Zhukov Vladimir A, Gusev Yuriy M, Chermashentsev Valerij M, VNII Molekulyarnoj Biolog N PR

Method for Determination of Infectious Activity of Viruses at Storage

SU1761801, 09/15/1992, Khomichev Vadim V, Shabanov Andrej V, Ziganshin Ramil A, Tereshchenko Irina N, Vojtenko Aleksandr V, Zhukov Sergej YU, VNII Molekulyarnoj Biolog N PR

Method of Preparing Dry Virus Preparations

SU1818344, 05/30/1995, Zelenkov Valerij N, Solodkij Vladislav V, Vsesoyuznyj NII Molekulyarnoj

Method of Lyophilic Drying of Biological Preparations  
RU2111426, 05/20/1998, Shalaev Evgenij Jur Evich, Franks Feliks, Varaksin Nikolaj Anatol Evich, Rukavishnikov Mikhail Jur Evic, Ekhnologii Vektor, G Nauchnyj TS Virusologii I BI

**Anthrax:**

Method of Preparing Anthraxin  
GB1136143, 11/12/1968, Shlyakhov E N, Shvarts S A, Moldavsky NII Gigieny Epidem

Method of Determining Hemolytic Activity of Bacillus Anthracis  
SU1597404, 10-07/1990, Tsygankova Olga I, Buravtseva Nina P, NI Protivochumnyj Kavkaza ZA

Method for Differentiation of Bacillus Anthracis and Bacillus Cereus  
SU1629317, 02/23/1991, Polikarpova Elena V, IR NI Protivochumnyj I Sibiri

Method for Control of Harmlessness of Live Anthrax Vaccines  
SU1706630, 01/23/1992, Bakulov Igor A, Gavrillov Vladimir A, Kosyachenko Nataliya S, VNII Veterinarnej Virusologii

Culture Medium for Growing Capsule Form of Anthrax Microbe  
SU1712409, 02/15/1992, Nizamov Ramzi N, Sadykov Nariman S, Salenko Lidiya S, VNI Veterinarnyj Institut

Method for Isolation of Anthrax Pathogens  
SU1723130, 03/30/1992, Gylka Vladimir V, Burdenko Taisa A, Tsapkov Viktor I, Samus Nina M, Kishinevskij G Med, Moldavskij G Univ IM V I

Nutrient Medium for Preparation of Anthrax Microbe  
SU1768634, 10/15/1992, Ugrimov Stanislav A, Lopatkin Oleg N, Pivovarova Nadezhda I, Sokolenko Margarita G, Marchukova Larisa N, Molotova Valentina P, Proizv OB Allergen N, Protivochumnyj I Kavkaza ZA

Method for Determining Immunogenic Activity of Vaccine Against Anthrax in Cattle  
SU1789218, 01/23/1993, Sadykov Nariman S, Nizamov Ramzi N, Akhmerov Dzhanbek SH, Salenko Lidiya S, Romanov German I, VNI Veterinarnyj Institut

Method of Bacillus Anthracis Strain Cultivation  
SU1791449, 01/30/1993, Gavrillov Vladimir A, Kalabekov Mutalif I, Seliverstov Vasiliy V, Bakulov Igor A, Chislov Yuriy V, Matveeva Nina B, Nikitin Andrej V, VNII Veterinarnej Virusologii

Method of Anthrax Pathogen Atoxigenic Variants Preparing  
SU1897079, 04/07/1993, Shelokhovich Aleksandr I, Lipnitskij Anatolij V, Likholetov Stanislav M, Volg NI Protivochumnyj I



Method for Cultivating Bacteria of Bacillus Anthracis Type  
SU1837071, 08/30/1993, Bakulov Igor A, Gavrilov Vladimir A, Lavresyuk Aleksandr E,  
Nikolajchuk Lyudmila F, Vsesoyuznyj NII Veterinarnoj V

Process of Transforming Anthrax-Infected Cells by Plasmid DNA  
RU2005787, 01/15/1994, Pomerantsev A P, Mokhov Ju V, Gosudarstvennyj Nauchno-  
Issledovatel'Skij Institut Prikladnoj Mikrobiologi

Method for Producing Serum Against Anthrax  
RU1347224, 11/20/1995, Romanov G I, Manichev A A, Salenko L S, Stepanova V V,  
Zakharov D G, Komelina L I, Bondarenko N A, Timoshenko S M, Polyakov V A, Mitin  
S S, Vsesoyuznyj G N Kontrolnyj I V

Method for Producing Animal Anthrax Vaccine  
RU1566532, 12/20/1995, Romanov G I, Chernetskij YU P, Velikanova T A, Salenko L  
S, Kremlev N P, Stepanova V V, Shmorgun B I, Vsesoyuznyj G N Kontrolnyj I V,  
Vsesoyuznyj G N Kontrolnyj I V

Method of Indicating Anthrax Pathogen  
RU2012595, 05/15/1994, Shchedrin Vitalij I, Lyamkin Gennadij I, Yaroshchuk Viktor A

Method of Cattle Experimental Infection  
RU2055592, 03/10/1996, Romanov German I, Akhmerov Dzhanbek SH, Nizamov  
Ramzi N, Dsadykov Nariman S, Salenko Lidiya S, Morozov Mikhail P, Yusupov Rasykh  
KH, Vserossijskij GNII Kontrolya

Mixed Vaccine Against Anthrax and Foot-and-Mouth and a Method of Anthrax and  
Foot-and-Mouth Prophylaxis  
RU2056861, 03/27/1996, Bakulov Igor A, Gavrilov Vladimir A, Sobakin Aleksej S,  
Nikolajchuk Lyudmila F, Chichkanov Vladimir P, Kantutis Georgij S, Vserossijskij NII  
Veterinarnoj

Method Preparing Vaccine for Control of Anthrax in Animals  
RU2095409, 11/10/1997, Gavrilov Vladimir A, Chislov Yuriy V, Nikolajchuk Lyudmila  
F, Vserossijskij NII Veterinarnoj

Method of Differentiation of Anthrax Microbe Strains by Virulence In Vitro  
RU2101351, 01/10/1998, Funtikova T N, Buravtseva N P, Eremenko E I, UMNYYJ  
Institute, Stavropol Skij NI Skij Protivo

Method Selection of Immunogenic Strains and Subcultures of Live Anthrax Vaccines  
RU2101355, 01/10/1998, Eremenko E I, Funtikova T N, Buravtseva N P, Stavropol Skij  
NI Skij Protivo, UMNYYJ Institut

Method of Virulence Recovery of Anthrax Microbe Strains  
RU2102484, 01/20/1998, Eremenko E I, Tsygankova O I, Solodovnikov B V, Stavropol  
Skij NI Skij Protivo, UMNYYJ Institut

Mixed Anthrax Vaccine  
RU2115433, 07/20/1998, Sadovoj N V, Kravets I D, Selivanenko G M, Kharechko G S,  
Sadovaja E A, Vasilev P G, Litusov N V, Elagin G D, Supotnitskij M V, NI Skij I  
Mikrobiologii M , ORF

Method of Selection of Anthrax Vaccine Strain Cultures and Vaccines Prepared of  
Thereof  
RU2123532, 12/20/1998, Funtikova T N, Tsygankova O I, Eremenko E I, Buravtseva N  
P, Stavropol Skij NI Skij Protivo, UMNYYJ Institut

Solid Nutrient Medium for Anthrax Pathogen Detection  
RU2125610, 01/27/1999, Govorunova V A, Matsarenko G V, Marinin L I, Stepanov A  
V, G Nauchnyj TS Prikladnoj Mikro, OLOGII

Method of Maintenance of Anthrax Vaccine Strain STI-1  
RU2142009, 11/29/1999, Seroglazov V V, Kozhukhov V V, Strochkov JU I, Amosov M  
JU, Inisterstva Oborony Rossijskoj, NI Skij I Mikrobiologii M

Method of Submerged Culturing Anthrax Vaccine Strain STI-1  
RU2142010, 11/27/1999, Judnikov V A, Shevtsov A N, Kozhukhov V V, NI Skij I  
Mikrobiologii M, Inisterstva Oborony Rossijskoj

Method of Concentrating Spore Culture in Production of Anthrax Vaccine Preparations  
RU2151798, 06/27/2000, Anker S S, Ieshchenko A A, Kozhukhov V V, Shevtsov A N,  
Komosko G V, Savel EV S P, NII Mikrobiologii M, Inisterstva Oborony RF

Method of Assay of Sensitivity of Anthrax Microbe to Antibiotic by Immunofluorescent  
Method  
RU2152033, 06/27/2000, Proskurina V A, Shijanova E S, Kurilova A A, Eremenko E I,  
Stavropol Skij NI Protivo, UMNYYJ Institut

Anthrax Vaccine Strain STI-PR-4 Resistant to a Broad Spectrum of Antibiotics  
RU2173342, 10/09/2001, Seroglazov V V, Kozhukhov V V, Amosov M YU, Strochkov  
YU I, Inisterstva Oborony Rossijskoj, NI Skij I Mikrobiologii M

Method for Obtaining the Serum for Identification of Anthracic Agent  
RU2191603, 10/27/2002, Barkov A M, Lipnitskij A V, Evteeva E V, Volg NI  
Protivo, UMNYYJ Institut

Strain Bacillus Anthracis KM89 as Producer of Anthrax Antigens  
RU2180349, 03/10/2003, Mikshis N I, Popov JU A, Drozdov I G, Kuttyrev V V, Darmov  
I V, Mikrob T, J NI Protivo, UMNYYJ Institut, Federal NOE G Uchrezhdenie ROS

Strain Bacillus Anthracis KM90 as Base for Genetic Construction of Anthrax Antigen Producers

RU2180350, 03/10/2003, Mikshis N I, Popov JU A, Drozdov I G, Kutyr V V, Mikrob T, J NI Protivochumnyj Institut, Federal NOE G Uchrezhdenie ROS

Strain Bacillus Anthracis KM92 as Producer of Anthrax Antigens

RU2180916, 03/27/2003, Mikshis N I, Popov JU A, Drozdov I G, Kutyr V V, Mikrob T, J NI Protivochumnyj Institut, Federal NOE G Uchrezhdenie ROS

Strain Bacillus Anthracis KM-91 as Base for Genetic Construction of Producers of Anthrax Antigens

RU2180917, 03/27/2002, Mikshis N I, Popov JU A, Drozdov I G, Kutyr V V, J NI Protivochumnyj Institut Mikro, Federaal NOE G Uchrezhdenie ROS

Method to Obtain Dry Combined Anthrax Vaccine

RU2181294, 04/20/2002, Kozhukhov V V, Pimenov E V, Seroglazov V V, Judnikov V A, Menovshchikov V A, ORF, NII Mikrobiologii M

Associated Vaccine Against Anthrax and Variola in Sheep

RU2181296, 04/20/2002, Balysh V M, Seljaninov JU O, Bakulov I A, Nikulin A N, Kosjachenko N S, Gorshkova T F, Zhestrerev V I, Glukhareva E N, Badaev F A, VNII Veterinarnej Virusologii

Method of Asporogenous Strain Bacillus Anthracis Preparing (Variants)

RU2193597, 11/27/2002, Drozdov I G, Kutyr V V, Mikshis N I, Popov JU A, Federal NOE G Uchrezhdenie ROS, J NI Protivochumnyj Institute Mikro

Method of Preparing Native Spore Suspension for Anthrax Vaccine Preparing

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