

Materials List for:

# Rat Model of Widespread Cerebral Cortical Demyelination Induced by an Intracerebral Injection of Pro-Inflammatory Cytokines

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## Materials

| Name                                    | Company                                                                       | Catalog Number | Comments                                                                                                                                            |
|-----------------------------------------|-------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Adult male Dark Agouti rats (300 ±25 g) |                                                                               |                |                                                                                                                                                     |
| Fentanyl                                | Hameln pharma plus, Germany                                                   |                | as Fentanyl-Citrate, 50 µg/ml                                                                                                                       |
| Midazolam                               | ERWO Pharma, Austria                                                          | 50039017       | 5 mg/ml                                                                                                                                             |
| Medetomidin                             | Orion Pharma, Finland                                                         |                | as Medetomidin hydrochloride, 1mg/ml                                                                                                                |
| Flumazenil                              | Roche, Switzerland                                                            |                | 0.1 mg/ml                                                                                                                                           |
| Atipamezol                              | Orion Pharma, Finland                                                         |                | as Atipamezol hydrochloride, 5 mg/ml                                                                                                                |
| 10% povidone-iodine complex             | Mundipharma, Austria                                                          |                |                                                                                                                                                     |
| Dental cement                           | Heraeus Kulzer, Germany                                                       | 6603 7633      |                                                                                                                                                     |
| Physiological saline solution           | Fresenius Kabi, Austria                                                       |                | 0.9% NaCl                                                                                                                                           |
| Phosphate buffered saline (PBS)         | Sigma-Aldrich, Germany                                                        | P3813          |                                                                                                                                                     |
| Isoflurane                              | AbbVie, Austria                                                               |                |                                                                                                                                                     |
| Lubricating eye drops                   | Thea Pharma, Austria                                                          |                |                                                                                                                                                     |
| 70% EtOH                                | Merck, Germany                                                                | 1070172511     | Absolute ethanol was diluted in ddH <sub>2</sub> O for preparation of 70% v/v                                                                       |
| 2.5% enrofloxacin                       | Bayer, Germany                                                                |                | Prophylactic antibiotics                                                                                                                            |
| carprofen                               | Pfizer, USA                                                                   |                | Painkillers, 50 mg/ml                                                                                                                               |
| Tween-20                                | Sigma-Aldrich, Germany                                                        | P9416          |                                                                                                                                                     |
| Pentobarbital                           | Richter Pharma, Austria                                                       |                | pentobarbital sodium, 400 mg/ml                                                                                                                     |
| Interferon gamma                        | PeproTech, USA                                                                | 400-20         |                                                                                                                                                     |
| Tumor necrosis factor alfa              | R&D Systems, USA                                                              | 510-RT-050/CF  |                                                                                                                                                     |
| rMOG <sub>1-125</sub>                   | own product at the Centre of Molecular Medicine, Karolinska Institute, Sweden |                | Recombinant rat myelin oligodendrocyte glycoprotein, amino acids 1-125 from the N-terminus, also commercially available: AnaSpec, AS-55152-500, USA |
| Anti-MOG antibody                       | Ana Spec/Kaneka Corporation, Japan                                            | AS-555157      | Standard from ELISA-Kit; Ana Spec/Kaneka                                                                                                            |
| Incomplete Freund's adjuvant            | Sigma-Aldrich, Germany                                                        | F5506          |                                                                                                                                                     |

|                                                                    |                                    |                                  |                                                                |
|--------------------------------------------------------------------|------------------------------------|----------------------------------|----------------------------------------------------------------|
| Horse radish peroxidase conjugated anti-rat IgG secondary antibody | Ana Spec/Kaneka Corporation, Japan | AS-555157                        | Secondary Antibody from ELISA-Kit; Ana Spec/Kaneka Corporation |
| Bovine serum albumin                                               | Sigma-Aldrich, Germany             | A9576                            |                                                                |
| Peroxidase substrate solution                                      | Vector Laboratories, USA           | SK-45000                         |                                                                |
| Stereotactic frame                                                 | David Kopf Instruments, USA        |                                  |                                                                |
| Catheters, MRI suitable                                            | PlasticsOne, USA                   | 8IC315GPKXXC                     |                                                                |
| Dummy cannulas                                                     | PlasticsOne, USA                   | 8IC315DCNSPC                     |                                                                |
| Plastic screws, MRI suitable                                       | PlasticsOne, USA                   | 8L080X093N01                     |                                                                |
| Connector cannula                                                  | PlasticsOne, USA                   | 8IC313CXSPCC                     |                                                                |
| Screw driver with 2mm tip-size                                     |                                    |                                  |                                                                |
| Drill with flexible shaft extension                                | Proxxon, Germany                   | NO 28 472, NO 28 706, NO 28 620, |                                                                |
| Drill bit, round, 0.5 mm                                           | Hager & Meisinger, Germany         | REF310 104 001 001 009           |                                                                |
| Drill bit, twisted, 1.3 mm                                         | Hager & Meisinger, Germany         | REF350 104 417 364 013           |                                                                |
| Scalpel                                                            | Braun, Germany                     | BB510                            |                                                                |
| Scalpel handle                                                     | Fine Science Tools, Germany        | 91003-12                         |                                                                |
| Cotton tip applicator                                              | Henry Schein Medical, Austria      | 900-3155                         |                                                                |
| Surgical scissors                                                  | Fine Science Tools, Germany        | 14101-14, 14088-10               |                                                                |
| Surgical forceps                                                   | Fine Science Tools, Germany        | 11002-12, 11251-35               |                                                                |
| Bulldog clamps                                                     | Fine Science Tools, Germany        | 18050-35                         |                                                                |
| Homoeothermic blanket                                              | TSE systems, Germany               |                                  |                                                                |
| Infrared Lamp                                                      | Beurer, Germany                    | 616.51                           |                                                                |
| Dental curing light                                                | Guilin Woodpecker Medical, China   |                                  |                                                                |
| Absorbable suture                                                  | Johnson & Johnson, Belgium         | V792E                            |                                                                |
| Programmable syringe pump                                          | World Precision Instruments, USA   | AL-1000                          |                                                                |
| Exam gloves                                                        |                                    |                                  |                                                                |
| Surgical gown                                                      |                                    |                                  |                                                                |
| Electric Shaver                                                    | Aesculap, Germany                  | GT420                            |                                                                |
| Volatile anesthetic vaporizer                                      | Rothacher Medical, Switzerland     | CV 30-301-D                      |                                                                |
| Oxygen source for volatile anesthetic vaporizer                    | Air Liquide, Austria               | 19,113                           |                                                                |
| Volatile anesthesia chamber                                        | Rothacher Medical, Switzerland     | PS-0347                          |                                                                |
| Anesthesia mask for rats                                           | Rothacher Medical, Switzerland     | PS-0307-A                        |                                                                |
| 1 ml syringe                                                       | Codan, Denmark                     | REF 62.1612                      |                                                                |
| 26 Gauge needle for injection                                      | Braun, Germany                     | 4657683                          |                                                                |
| 20 Gauge needle for cytokine injection and immunization            | Braun, Germany                     | 4657519                          |                                                                |
| Luer lock tip glass syringes                                       | Poulsen & Graf, Germany            | 7.140-37                         |                                                                |
| 3 way stopcock                                                     | Becton Dickinson, Sweden           | 394600                           |                                                                |
| 96-well plate                                                      | Thermo Fisher Scientific, USA      | 442404                           |                                                                |
| Plate reader                                                       | Cole-Parmer, USA                   | EW-1396-00                       |                                                                |
| 37°C incubator                                                     | Kendro, Germany                    | 50042301                         |                                                                |
| Micropipettes                                                      | Gilson, USA                        | F167350                          |                                                                |