

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	Hamelin 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	
Isofluorane	AbbVie, Austria		
Lubricating eye drops	Thea Pharma, Austria		
70% EtOH	Merck, Germany	1070172511	Absolute ethanol was diluted in ddH ₂ 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	

rMOG1-125	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	