

Primary Cultures of Rat Astrocytes and Microglia and Their Use in the Study of Amyotrophic Lateral Sclerosis

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jove.com/video/63483

Materials

| Name | Company | Catalog Number | Comments |
|---|--|----------------|----------|
| 15 mL tube | Sarstedt, Germany | 62 554 502 | |
| 2 mL tube | Sarstedt, Germany | 72.691 | |
| 21 G needle | Nipro, Japan | HN-2138-ET | |
| 23 G needle | Nipro, Japan | HN-2338-ET | |
| 5 mL syringe | Nipro, Japan | SY3-5SC-EC | |
| 6 mm circular glass coverslip | Menzel Glasser, Germany | 630-2113 | |
| 60 mm Petri dish | ThermoFisher Scientific, USA | 130181 | |
| ATP | Sigma-Aldrich, Germany | A9062 | |
| AxioObserver A1 | Carl Zeiss, Germany | | |
| Bovine serum albumine | Sigma-Aldrich, Germany | B6917 | |
| Calcium chloride | Sigma-Aldrich, Germany | 2110 | |
| Centrifuge | Eppendorf, Germany | | |
| DAPI | Sigma-Aldrich, Germany | 10236276001 | |
| D-glucose | Sigma-Aldrich, Germany | 158968 | |
| DMEM | Sigma-Aldrich, Germany | D5648 | |
| Donkey-anti goat AlexaFluor 647 IgG antibody | Invitrogen, USA | A-21447 | |
| Donkey-anti mouse AlexaFluor 488 IgG antibody | Invitrogen, USA | A-21202 | |
| EDTA | Sigma-Aldrich, Germany | EDS-100G | |
| EGTA | Sigma-Aldrich, Germany | E4378 | |
| “evolve”-EM 512 Digital Camera System | Photometrics, USA | | |
| Fetal bovine serum (FBS) | Gibco, ThermoFisher Scientific, USA | 10500064 | |
| Fiji ImageJ Software | Open source under the GNU General Public Licence | | |
| FITC filter set | Chroma Technology Inc., USA | | |
| Fluo-4 AM | Molecular Probes, USA | F14201 | |
| Goat anti-Iba1 | Fujifilm Wako Chemicals, USA | 011-27991 | |

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|---------------------------------------|---------------------------------|----------|--|
| HEPES | Biowest, France | P5455 | |
| HighSpeed Solution Exchange System | ALA Scientific Instruments, USA | | |
| Incubator | Memmert GmbH + Co. KG, Germany | | |
| Magnesium chloride | Sigma-Aldrich, Germany | M2393 | |
| Matlab software | Math Works, USA | | |
| Mouse anti-GFAP | Merck Millipore, USA | MAB360 | |
| Mowiol 40-88 | Sigma-Aldrich, Germany | 324590 | |
| Normal donkey serum | Sigma-Aldrich, Germany | D9663 | |
| Paraformaldehyde | Sigma-Aldrich, Germany | 158127 | |
| Penicilin and Streptomycin | ThermoFisher Sientific, USA | 15140122 | |
| Poly-L-lysine | Sigma-Aldrich, Germany | P5899 | |
| Potassium chloride | Sigma-Aldrich, Germany | P5405 | |
| Potassium dihydrogen phosphate | Carlo Erba Reagents, Spain | 471686 | |
| Shaker DELFIA PlateShake | PerkinElmer Life Sciencies, USA | | |
| Sodium bicarbonate | Sigma-Aldrich, Germany | S3817 | |
| Sodium chloride | Sigma-Aldrich, Germany | S5886 | |
| Sodium phosphate dibasic heptahydrate | Carl ROTH GmbH | X987.2 | |
| Sodium pyruvate | Sigma-Aldrich, Germany | P5280 | |
| Thapsigargin | Tocris Bioscience, UK | 1138 | |
| Triton X - 100 | Sigma-Aldrich, Germany | T8787 | |
| Trypsin | Sigma-Aldrich, Germany | T4799 | |
| Vapro Vapor Pressure Osmometer 5520 | Wescor, ELITechGroup Inc., USA | | |
| ViiFluor Imaging System | Visitron System GmbH, Germany | | |
| VisiChrome Polychromator System | Visitron System GmbH, Germany | | |
| VisiView high performance setup | Visitron System GmbH, Germany | | |
| Xenon Short Arc lamp | Ushio, Japan | | |