

**Materials List for:**

# Electroconvulsive Seizures in Rats and Fractionation of Their Hippocampi to Examine Seizure-induced Changes in Postsynaptic Density Proteins

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## Materials

| Name                                                                         | Company                           | Catalog Number  | Comments                           |
|------------------------------------------------------------------------------|-----------------------------------|-----------------|------------------------------------|
| Spargue-Dawley rat                                                           | Charles River Laboratories        |                 | ECS supplies                       |
| A pulse generator                                                            | Ugo Bsile, Comerio, Italy         | 57800           | ECS supplies                       |
| MilliQ water purifying system                                                | EMD Millipore                     | Z00Q0VWW        | Subcellular fractionation supplies |
| Sucrose                                                                      | Em science                        | SX 1075-3       | Subcellular fractionation supplies |
| Na <sub>4</sub> O <sub>7</sub> P <sub>2</sub>                                | SIGMA-ALDRICH                     | 221368          | Subcellular fractionation supplies |
| Ethylenediaminetetraacetic acid (EDTA)                                       | SIGMA-ALDRICH                     | E9884           | Subcellular fractionation supplies |
| HEPES                                                                        | SIGMA-ALDRICH                     | H0527           | Subcellular fractionation supplies |
| Okadaic acid                                                                 | TOCRIS                            | 1136            | Subcellular fractionation supplies |
| Halt Protease Inhibitor                                                      | Thermo Scientific                 | 78429           | Subcellular fractionation supplies |
| NaVO <sub>3</sub>                                                            | SIGMA-ALDRICH                     | 72060           | Subcellular fractionation supplies |
| EMD Millipore Sterito Sterile Vacuum Bottle-Top Filters                      | Fisher Scientific                 | SCGPS05RE       | Subcellular fractionation supplies |
| Iris Scissors                                                                | WPI (World Precision Instruments) | 500216-G        | Subcellular fractionation supplies |
| 30 mm tissue culture dish                                                    | Fisher Scientific                 | 08-772B         | Subcellular fractionation supplies |
| Glass homogenizer and a Teflon pestle                                        | VWR                               | 89026-384       | Subcellular fractionation supplies |
| 1.7 mL microcentrifuge tube                                                  | DENVILLE SCIENTIFIC INC.          | C2170 (1001002) | Subcellular fractionation supplies |
| Sorvall Legend XT/XF Centrifuge                                              | Thermo Fisher                     | 75004521        | Subcellular fractionation supplies |
| Pierce BCA Protein Assay Reagent A, 500 mL                                   | Thermo Fisher                     | #23228          | Western blot supplies              |
| Pierce BCA Protein Assay Reagent B, 25 mL                                    | Thermo Fisher                     | #1859078        | Western blot supplies              |
| SDS-polyacrylamide gel (SDS-PAGE)                                            | BIO-RAD                           | #4561086S       | Western blot supplies              |
| Running Buffer                                                               | Made in the lab                   |                 | Western blot supplies.             |
| Mini-PROTEAN Tetra Vertical Electrophoresis Cell for MiniPrecast Gels, 4-gel | BIO-RAD                           | #1658004        | Western blot supplies              |
| Polyvinyl difluoride (PVDF) membrane                                         | Millipore                         | IPVH00010       | Western blot supplies              |
| Transfer Buffer                                                              | Made in the lab                   |                 | Western blot supplies.             |
| Tris-base                                                                    | Fisher Scientific                 | BP152-1         | Western blot supplies              |
| Glycine                                                                      | Fisher Scientific                 | BP381-5         | Western blot supplies              |
| Sodium dodecyl sulfate                                                       | SIGMA-ALDRICH                     | 436143          | Western blot supplies              |
| Methanol                                                                     | Fisher Scientific                 | A454-4          | Western blot supplies              |

|                                                   |                                  |                 |                                                                                                        |
|---------------------------------------------------|----------------------------------|-----------------|--------------------------------------------------------------------------------------------------------|
| Triton X-100                                      | Fisher Scientific                | BP151-500       | detergent for PSD isolation                                                                            |
| Mini Trans-Blot Module                            | BIO-RAD                          | #1703935        | Western blot supplies                                                                                  |
| Nonfat instant dry milk                           | Great value                      |                 | Western blot supplies                                                                                  |
| Multi-purpose rotator                             | Thermo Scientific                | Model-2314      | Western blot supplies                                                                                  |
| Hyblot CL Autoradiography Film                    | DENVILLE SCIENTIFIC INC.         | E3018 (1001365) | Western blot supplies                                                                                  |
| Enhanced chemifluorescence substrate              | Thermo Scientific                | 32106           | Western blot supplies                                                                                  |
| a Konica SRX-101A film processor                  | KONICA MINOLTA                   | SRX-101A        | Western blot supplies                                                                                  |
| <b>Name of Antibody</b>                           |                                  |                 |                                                                                                        |
| PSD-95                                            | Cell Signaling                   | #2507           | Antibody dilution = 1:500 - 1,000, time = 9 - 12 h, Reaction Temperature = 4 °C, Host Species = Rabbit |
| Synaptophysin                                     | Cell Signaling                   | #4329           | Antibody dilution = 1:500 - 1,000, time = 9 - 12 h, Reaction Temperature = 4 °C, Host Species = Rabbit |
| alpha-Tubulin                                     | Santacruz                        | SC-5286         | Antibody dilution = 1:500 - 1,000, time = 9 - 12 h, Reaction Temperature = 4 °C, Host Species = Mouse  |
| GluN2B                                            | Neuromab                         | 75-097          | Antibody dilution = 1:500 - 1,000, time = 9 - 12 h, Reaction Temperature = 4 °C, Host Species = Mouse  |
| GluA2                                             | Sigma-aldrich                    | Sab 4501295     | Antibody dilution = 1:500 - 1,000, time = 9 - 12 h, Reaction Temperature = 4 °C, Host Species = Rabbit |
| STEP                                              | Santacruz                        | SC-23892        | Antibody dilution = 1:200 - 500, time = 9 - 12 h, Reaction Temperature = 4 °C, Host Species = Mouse    |
| Peroxidas AffiniPure Donkey Anti-Mouse IgG (H+L)  | Jackson ImmunoReserch laboratory | 715-035-150     | Antibody dilution = 1:2,000-5,000, time = 1 h, Reaction Temperature = RT, Host Species = Donkey        |
| Peroxidas AffiniPure Donkey Anti-Rabbit IgG (H+L) | Jackson ImmunoReserch laboratory | 711-035-152     | Antibody dilution = 1:2,000-5,000, time = 1 h, Reaction Temperature = RT, Host Species = Donkey        |