

**Materials List for:**

# **Purification and Reconstitution of TRPV1 for Spectroscopic Analysis**

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URL: <https://www.jove.com/video/57796>

DOI: [doi:10.3791/57796](https://doi.org/10.3791/57796)

## **Materials**

| <b>Name</b>                                              | <b>Company</b>               | <b>Catalog Number</b> | <b>Comments</b> |
|----------------------------------------------------------|------------------------------|-----------------------|-----------------|
| QuikChange Lightning Site-Directed Mutagenesis Kit       | Agilent Technologies         | 210519-5              |                 |
| 2-Propanol (Isopropanol)                                 | Fisher Scientific            | A416                  |                 |
| Albumin Bovine Serum (BSA)                               | GoldBio.com                  | A-420-10              |                 |
| Amylose resin                                            | NEB                          | E8021L                |                 |
| Aprotinin                                                | GoldBio.com                  | A-655-25              |                 |
| Asolectin from Soybean                                   | Sigma                        | 11145                 |                 |
| Bac-to-Bac Baculovirus Expression System                 | Invitrogen Life Technologies | 10359016              |                 |
| Biobeads SM-2 Adsorbents                                 | Bio-Rad                      | 152-3920              |                 |
| Borosilicate glass pipettes (3.5") (oocyte injection)    | Drummond Scientific          | 3-000-203 G/X         |                 |
| Borosilicate glass pipettes (oocyte recordings)          | Sutter Instrument            | B150-110-10HP         |                 |
| CaCl <sub>2</sub> 2H <sub>2</sub> O                      | Fisher Scientific            | C79                   |                 |
| Carbenicillin (Disodium)                                 | GoldBio.com                  | C-103-5               |                 |
| Cellfectin Reagent                                       | Invitrogen Life Technologies | 10362-010             |                 |
| cellSens                                                 | Olympus                      |                       |                 |
| Chloroform                                               | Fisher Scientific            | C606SK                |                 |
| Collagenase Type 1                                       | Worthington-Biochem          | LS004196              |                 |
| Critiseal                                                | VWR                          | 18000-299             |                 |
| D-(+)-Glucose                                            | Sigma                        | G8270                 |                 |
| D-(+)-Maltose Monohydrate                                | Fisher Scientific            | BP684                 |                 |
| DDM (n-Docecyl-B-D-Maltopyranoside)                      | Anatrace                     | D310S                 |                 |
| High glucose medium (Dulbecco's Modified Eagle's Medium) | Sigma                        | D0572                 |                 |
| Disposable PD-10 Desalting Columns                       | GE Healthcare                | 45-000-148            |                 |
| EGTA                                                     | Fisher Scientific            | O2783                 |                 |
| Fetal Bovine Serum                                       | Invitrogen Life Technologies | 10082-147             |                 |
| Fluo-4 AM                                                | Life Technologies            | F-14201               |                 |
| GenCatch Plus Plasmid DNA Mini-Prep Kit                  | Epoch Life Science, Inc      | 2160250               |                 |
| GenCatch PCR Cleanup Kit                                 | Epoch Life Science, Inc      | 2360050               |                 |
| Gentamicin Sulfate                                       | Lonza                        | 17-518Z               |                 |

|                                                                              |                                 |               |  |
|------------------------------------------------------------------------------|---------------------------------|---------------|--|
| Glass capillary (25 µl)                                                      | VWR                             | 53432-761     |  |
| Glass Flask 2800 mL                                                          | Pyrex USA                       | 4423-2XL      |  |
| Glycerol                                                                     | Fisher BioReagents              | BP229         |  |
| HEK293S GnTI-                                                                | ATCC                            | CRL-3022      |  |
| HEPES                                                                        | Sigma                           | H4034         |  |
| IPTG (isopropyl-thio-B-galactoside)                                          | GoldBio.com                     | I2481C25      |  |
| Kanamycin Sulfate                                                            | Fisher Scientific               | BP906-5       |  |
| KCl                                                                          | Fisher Chemical                 | P217          |  |
| LB Broth, Miller                                                             | Fisher bioReagents              | BP1426        |  |
| Leupeptin Hemisulfate                                                        | GoldBio.com                     | L-010-5       |  |
| Lipofectamine 2000                                                           | Invitrogen Life Technologies    | 11668-019     |  |
| MgCl <sub>2</sub> 6H <sub>2</sub> O                                          | Fisher Scientific               | BP214         |  |
| MgSO <sub>4</sub> 7H <sub>2</sub> O                                          | Fisher Scientific               | BP213         |  |
| mMESSAGE mMACHINE T7 Kit                                                     | Ambion                          | AM1344        |  |
| MOPS                                                                         | Fisher bioReagents              | BP2936        |  |
| MTSL (1-Oxyl-2,2,5,5-tetramethylpyrrolidin-3-yl) Methyl Methanethiosulfonate | Toronto Research Chemicals, Inc | O873900       |  |
| NaCl                                                                         | Fisher Chemical                 | S271          |  |
| Opti-MEM                                                                     | Life Technologies               | 31985-062     |  |
| Pepstatin A                                                                  | GoldBio.com                     | P-020-5       |  |
| Pluronic Acid F-127 (20%)                                                    | PromoKine                       | CA707-59004   |  |
| PMSF                                                                         | GoldBio.com                     | P4170         |  |
| Poly-L-lysine Solution                                                       | Sigma-Aldrich                   | P4707         |  |
| Rneasy Mini Kit                                                              | Qiagen                          | 74104         |  |
| Sealed capillary                                                             | VitroCom                        | special order |  |
| SF-900 II SFM (insect cell medium)                                           | Gibco, Life Technologies        | 10902-088     |  |
| Sf9 Cells (SFM Adapted)                                                      | Invitrogen Life Technologies    | 11496-015     |  |
| Soybean Polar Lipid Extract                                                  | Avanti Polar Lipids, Inc        | 541602C       |  |
| Sucrose                                                                      | Fisher Scientific               | S25590        |  |
| Superose 6 Increase 10/300 GL                                                | GE Healthcare                   | 29091596      |  |
| TCEP HCl                                                                     | GoldBio.com                     | TCEP1         |  |
| Tetracyclin Hydrochloride                                                    | Fisher Scientific               | BP912-100     |  |
| Tris Base                                                                    | Fisher BioReagents              | BP152         |  |
| Tryptone                                                                     | Difco                           | 0123-01       |  |
| X-gal                                                                        | GoldBio.com                     | X4281C        |  |
| Xenopus oocytes                                                              | Nasco                           | LM00935M      |  |
| XL1 - Blue Competent Cells                                                   | Agilent Technologies, Inc       | 200249        |  |
| Yeast Extract                                                                | Difco                           | 0127-01-7     |  |
| Econo-Pack chromatography column                                             | Bio-Rad                         | 7321010       |  |
| Mini-PROTEAN TGX Stain-Free Precast Gels                                     | Bio-Rad                         | 17000436      |  |
| pFastBac1 Expression Vector                                                  | Invitrogen Life Technologies    | 10360-014     |  |
| DH10Bac Competent Cells                                                      | Invitrogen Life Technologies    | 10361-012     |  |
| Critiseal capillary tube sealant                                             | Leica Microsystems              | 02-676-20     |  |

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|------------------------------------|---------------------|------------|--|
| ABI Model 3130XL Genetic Analyzers | Applied Biosystems  | 4359571    |  |
| Transfer pipete                    | Fishebrand          | 13-711-9AM |  |
| Nanoject II                        | Drummond Scientific | 3-000-204  |  |