Pipette solutions, intra

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Substance** | **Standard cl pipette solution (mM)** | **Low cl pipette (mM)** | **Standard cl pipette solution with elevated calcium (mM)** | **Standard cl pipette solution with ATP (mM)** | **Standard cl pipette solution with elevated Ca and ATP (mM)** |
| KCl | 120 |  | 120 | 120 | 120 |
| NaCl | 20 | 20 | 20 | 16 | 16 |
| CaCl2 (free) | 10nM | 10nM | 1µM | 10nM | 1µM |
| Hepes | 5 | 5 | 5 | 5 | 5 |
| EGTA | 11 | 11 | 5 | 11 | 11 |
| K glutamate |  | 120 |  |  |  |
| ATP-Na |  |  |  | 4 | 4 |
| **Ionic concentrations** |  |
| **Ion** | **Standard cl pipette solution (mM)** | **Low cl pipette (mM)** | **Standard cl pipette solution with elevated calcium (mM)** | **Standard cl pipette solution with ATP (mM)** | **Standard cl pipette solution with elevated Ca and ATP (mM)** |
| K­­+ | 120 | 120 | 120 | 120 | 120 |
| Cl- | 140.000020 | 20.000020 | 140.002 | 136.000020 | 136.002 |
| Ca2+ | 0.000010 | 10nM | 0.001 | 10nM | 0.001 |
| Na+ | 20 | 20 | 20 | 20 | 20 |
| ATPx |  |  |  | 4 | 4 |

Bath solutions, extra

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Substance** | **Standard bath (mM)** | **Low cl (mM)** | **Low Na (mM)** | **High K (mM)** |
| KCl | 6 |  | 6 | 6 |
| NaCl | 150 |  | 10 | 150 |
| CaCl2 | 2 | 2 | 2 | 2 |
| Hepes | 10 | 10 | 10 | 10 |
| MgCl2 | 1 | 1 | 1 | 1 |
| Glucose | 10 | 10 | 10 | 10 |
| Na gluconate |  | 150 |  |  |
| K Gluconate |  | 6 |  | 54 |
| Choline Cl |  |  | 140 |  |
| **Ionic concentrations** |
| **Ion** | **Standard bath (mM)** | **Low cl (mM)** | **Low Na (mM)** | **High K (mM)** |
| K­­+ | 6 | 6 | 6 | 60 |
| Cl- | 162 | 6 | 162 | 162 |
| Ca2+ | 2 | 2 | 2 | 2 |
| Na+ | 150 | 150 | 10 | 150 |
| Mg2+ | 1 | 1 | 1 | 1 |