Materials List for:
Promotion of Survival and Differentiation of Neural Stem Cells with Fibrin and Growth Factor Cocktails after Severe Spinal Cord Injury

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URL: https://www.jove.com/video/50641
DOI: doi:10.3791/50641

<table>
<thead>
<tr>
<th>Name</th>
<th>Company</th>
<th>Catalog Number</th>
<th>Comments</th>
</tr>
</thead>
</table>
| Fibrinogen (rat)    | Sigma   | F6755-25MG     | 2 hr at 37 °C to dissolve
Stock Concentration: 50 mg/ml
Final Concentration: 25 mg/ml |
| Thrombin (rat)      | Sigma   | T5772-100UN    | Dissolve in 10 mM CaCl₂
Stock Concentration: 50 U/ml
Final Concentration: 25 mg/ml |
| bFGF (human)        | Sigma   | F0291 (25 μg)  | Stock Concentration: 200 ng/μl
Final Concentration: 10 ng/μl                                               |
| EGF (murine)        | Sigma   | E1257 (0.1 mg) | Stock Concentration: 200 ng/μl
Final Concentration: 10 ng/μl                                               |
| BDNF (human)        | Peprotech| 452-02 (1 mg)  | Stock Concentration: 1,000 ng/μl
Final Concentration: 50 ng/μl                                               |
| NT-3 (human)        | Peprotech| 452-03 (1 mg)  | Stock Concentration: 1,000 ng/μl
Final Concentration: 50 ng/μl                                               |
| GDNF (rat)          | Sigma   | G1401 (10 μg)  | Stock Concentration: 200 ng/μl
Final Concentration: 10 ng/μl                                               |
| IGF-1 (mouse)       | Sigma   | I8779 (50 μg)  | Stock Concentration: 200 ng/μl
Final Concentration: 10 ng/μl                                               |
| aFGF (human)        | Sigma   | F5542 (25 μg)  | Stock Concentration: 200 ng/μl
Final Concentration: 10 ng/μl                                               |
| PDGF-AA (human)     | Sigma   | P3076 (10 μg)  | Stock Concentration: 200 ng/μl
Final Concentration: 10 ng/μl                                               |
| HGF (human)         | Sigma   | H9661 (5 μg)   | Stock Concentration: 200 ng/μl
Final Concentration: 10 ng/μl                                               |
| MDL28170            | Sigma   | M6690 (25 mg)  | Stock in DMSO
Stock Concentration: 1 mM
Final Concentration: 50 μM                                                   |
| PBS                 | Millipore| BSS-1005-B     | Stock Concentration: 1x
Final Concentration: 1x                                                       |
| DMSO                | Sigma   | D2650          |                                                                           |
| Ketamine            | Putney  | 26637-411-01   | 40-80 mg/kg
Stock Concentration: 100 mg/ml
Final Concentration: 25 mg/ml                                               |
| Xylazine            | Lloyd   | 0410,          | 2.5-8 mg/ml
Stock Concentration: 100 mg/ml
Final Concentration: 5.8 mg/ml                                              |
| Acepromazine        | Butler  | 003845         | 0.5-4 mg/ml
Stock Concentration: 10 mg/ml
Final Concentration: 0.25 mg/ml                                              |
<p>| Betadine            | Healthpets | BET16OZ     |                                                                           |</p>
<table>
<thead>
<tr>
<th>Ringers</th>
<th>Abbott</th>
<th>Code</th>
<th>Volume</th>
<th>Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Banamine</td>
<td>Schering-Plough</td>
<td>0061-0851-03</td>
<td>2-3 ml/inj</td>
<td>2.5-5 mg/kg Stock Concentration: 50 mg/ml Final Concentration: 0.5 mg/ml</td>
</tr>
<tr>
<td>Ampicillin</td>
<td>Sandoz</td>
<td>0781-3404-85</td>
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<td>80-100 mg/kg Final Concentration: 50 mg/ml</td>
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<tr>
<td>LH-RH</td>
<td>Sigma</td>
<td>L4513</td>
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<td>200 μg/kg Final Concentration: 200 μg/ml</td>
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<td>HBSS</td>
<td>Gibco</td>
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<td>Trypsin</td>
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<tr>
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<td>FBS</td>
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<td>Stock Concentration: 100 % Final Concentration: 10 %</td>
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<td>Neurobasal Medium</td>
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<td>B27</td>
<td>Gibco</td>
<td>17504044</td>
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<td>Stock Concentration: 100x Final Concentration: 1x</td>
</tr>
</tbody>
</table>

Note, use human reagents for grafts of human NSCs