Cryopreserved rat brain striatum neurons
R-Cp

Introduction
Ready to use neurons from rat brain (E18, 19) are cell suspensions of high quality primary embryonic brain neuronal cells (including glia) prepared by standardized methods and are ready for immediate culture. Each vial of striatal cells contains approximately 4 million viable cells. This will seed into 10 or more wells of a 24-well plate and 50 or more wells of a 96-well plate using the recommended plating densities and medium. Cell death will occur during the first few days after plating and debris will be observed. This is normal. After approximately 4 days in culture, the cells will form a neurite network and by the 7th day, debris will be minimal.

Recommended cell culture substrates
Primary neuronal cells need an appropriate substrate to adhere and survive. The preferred substrate is poly-D-lysine with laminin. Poly-D-lysine or poly-L-lysine can also be used alone to coat the cell culture plasticware or cover slips. Coated cell culture plates, dishes, or cover slips can either be purchased from a supplier or prepared immediately prior to use. Protocols for the recommended substrates are available on our web site at www.lonza.com.

Characterization of cells
Each lot of neuronal cells is tested using mycoplasma PCR, bio-burden assay, ELISA and immunohistochemistry.

Recommended medium
The recommended medium for the rat brain striatum neuronal cells is the PNGM™ BulletKit™. The BulletKit™ contains a 200 ml bottle of primary neuron basal medium (PNBM) and PNGM™ SingleQuots™.

Performance
Recommended seeding density for subculture

<table>
<thead>
<tr>
<th>Volume of plating medium</th>
<th>Plating format</th>
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<tbody>
<tr>
<td>9 ml</td>
<td>1 ml cells suspension</td>
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<tr>
<td>200 µl/well</td>
<td>96-well plate</td>
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<tr>
<td>1 ml/well</td>
<td>24-well plate</td>
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Quality control
The cells test negative for mycoplasma and bacteria. Additional molecular and immunochemical testing for quality is done following conditions that mimic shipping.

Ordering information
R-Cp-502 Rat brain striatum neurons ≥1 ml cell suspension
CC-4461 PNGM™ BulletKit™ Kit which contains a 200 ml bottle of PNBM and PNGM™ SingleQuots™
CC-3256 PNBG basal medium Primary neuron basal medium (200 ml)
CC-4462 PNGM™ SingleQuots™ NSF-1, 4 ml; L-glutamine, 2 ml; GA, 0.2 ml

Product warranty
CULTURES HAVE A FINITE LIFESPAN IN VITRO. Lonza guarantees cell performance only when the approved media and supplements are used.

THESE PRODUCTS ARE FOR RESEARCH USE ONLY. Not approved for human or veterinary use, for application to humans or animals, or for use in vitro diagnostic or clinical procedures. WARNING: Handle as a potentially biohazardous material under biosafety level 1 containment. These cells are not known to contain an agent known to cause disease in healthy adult humans. These cells have not been screened for hepatitis B, human immunodeficiency viruses or other adventitious agents. If you require further information, please contact your site safety officer or scientific support.