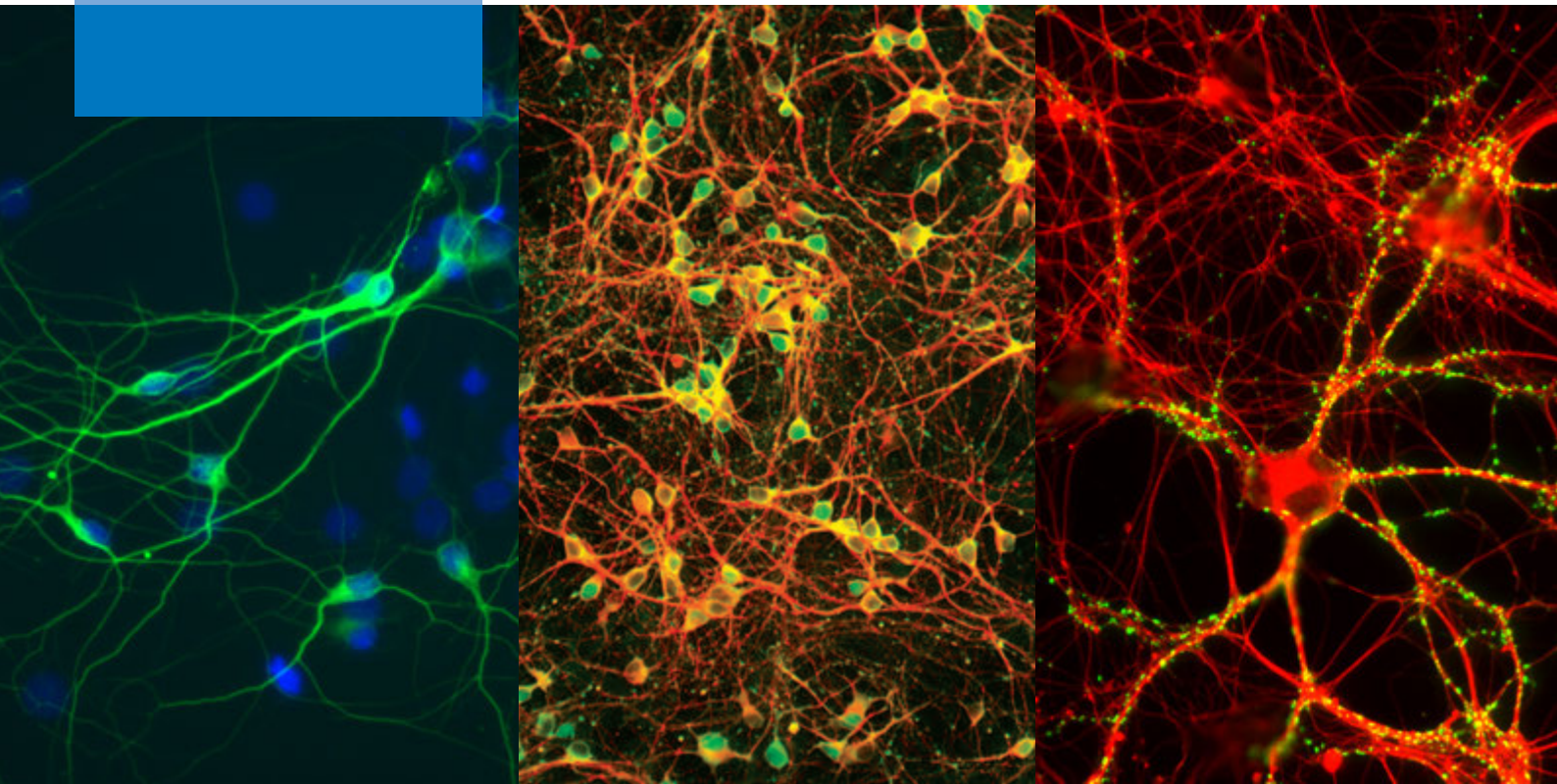


Cryopreserved Neural Cells and Media Performance Tested, Convenient Solution!



Lonza's Cryopreserved Neurons Offer Comparable Results to Fresh Cells

Neural cells are hard to obtain, and isolation can be challenging. Lonza does extensive quality control testing to verify the neural cells isolated are specific for the different regions of the brain.

Lonza offers cryopreserved primary **human astrocytes and neural progenitor cells** with optimized media and protocols to support these cells. We also carry a broad collection of cryopreserved primary **rat and mouse cells** including cortical/hypothalamic neurons, astrocytes and dorsal root ganglion neurons.

Challenges – Using Fresh Cells		Solutions – Lonza's Cryopreserved	
Limited Availability	Lack of cells when you need them, research on hold due to animal pregnancies	Immediate	Ready-to-use cells. Thaw and initiate your experiments
Inflexible	Must use cells immediately after isolation	Flexible	Cryopreserved cells remove time-dependencies with experiments
Inconsistent	Reproducibility issues across lots with repeat or long-term studies	Scale Up	Cells are produced as large batches and can be stored, archived and utilized for long-term studies
Unqualified	Minimal testing done with fresh isolations due to time needed for results	Authenticated	Cells tested for morphology to show comparable results to fresh cells and assure cells are specific to tissue origin



www.lonza.com/research

www.lonza.com/primary

Neuronal Growth Media

PNGM™ Primary Neuron Growth Media is a serum-free system that gives you a proven alternative to Neurobasal™ and B27® for long-term culture of embryonic, or adult rat and mouse neurons.

www.lonza.com/pngm

AGM™ Astrocyte Growth Media is designed to support the culture of human, mouse and rat astrocytes. The BulletKit™ format includes the necessary components such as basal medium, hEGF, and antibiotics.

www.lonza.com/agm

NPDM™ Media and NPMM™ Media support the maintenance or differentiation of neural progenitor cells. NPMM™ Neural Progenitor Maintenance BulletKit™ is for recovery from cryopreservation and maintenance as neurospheres. NPDM™ Neural Progenitor Differentiation BulletKit™ is for non-directed differentiation of neurospheres into neurons, astrocytes, and oligodendrocytes.

Ordering Information

Cat. No.	Description	Cat. No.	Recommended Media
Clonetic™ Primary Neural Cells and Media			
CC-2565	NHA – Human Astrocytes	CC-3186	AGM™ BulletKit™
PT-2599	NHNP – Human Neural Progenitor Cells	CC-3209, CC-3229	NPMM™ BulletKit™ NPDM™ BulletKit™
R-Cx-500	R-Cx – Rat Brain Cortex Neurons	CC-4461	PNGM™ BulletKit™
R-Hi-501	R-Hi – Rat Brain Hippocampus Neurons	CC-4461	
R-Cp-502	R-Cp – Rat Brain Striatum Neurons	CC-4461	
R-Drg-505	R-DRG – Rat Dorsal Root Ganglion Neurons	CC-4461	
R-eDRG-515	R-eDRG – Rat Dorsal Root Ganglion Neurons – Embryonic	CC-4461	
R-Cb-503	R-Cb – Rat Cerebellar Neurons	CC-4512	PNGM™-A BulletKit™
R-Hth-507	R-Hth – Rat Brain Hypothalamus Neurons	CC-4461	PNGM™ BulletKit™
R-CxAs-520	R-Cx-As – Rat Brain Cortex Astrocytes	CC-3186	AGM™ BulletKit™
R-HiAs-521	R-HiAs – Rat Brain Hippocampus Astrocytes	CC-3186	
R-CpAs-522	R-CpAs – Rat Brain Striatum Astrocytes	CC-3186	
R-AsM-530	R-AsM – Rat Brain Cx-Hi-Cp Mix Astrocytes	CC-3186	
M-Cx-400	M-Cx – Mouse CD1 Brain Cortex Neurons	CC-4461	PNGM™ BulletKit™
M-Cp-402	M-Cp – Mouse CD1 Brain Striatum Neurons	CC-4461	PNGM™ BulletKit™
M-Cx-300	M-Cx – Mouse C57 Brain Cortex Neurons	CC-4461	PNGM™ BulletKit™
M-Cp-302	M-Cp – Mouse C57 Brain Striatum Neurons	CC-4461	PNGM™ BulletKit™
M-AsM-430	M-AsM – Mouse CD1 Brain Mixed Astrocytes	CC-3186	AGM™ BulletKit™
M-AsM-330	M-AsM – Mouse CD57 Brain Mixed Astrocytes	CC-3186	AGM™ BulletKit™
M-Hi-401	M-Hi – Mouse Brain Hippocampus Neurons	CC-4461	PNGM™ BulletKit™

Visit www.lonza.com/primary for a complete list of Lonza's human and animal primary cells and media and www.lonza.com/raft to learn about our RAFT™ 3D Culture System.

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