

NeuroPrep™ Medium



A division of Gene Therapy Systems, Inc.

Neuronal Tissue Dissociation Medium

Contents		
Cat. No.	Description	Quantity
NM100100	NeuroPrep™ Medium	100 ml

Related Products	Cat. No.
NeuroPapain™ Enzyme, 100 mg	NM100200
NeuroPure™ E18 Primary Rat Hippocampal Cells	N100200
NeuroPure™ E18 Primary Rat Cortical Cells	N200200

Related Products	Cat. No.
NeuroPure™ P8 Primary Rat Cerebellar Cells	N300200
NeuroPure™ Primary E18 Hypothalamus Cells	N400200
NeuroPure™ Primary E18 Striatum Cells	N500200
NeuroPure™ Primary E18 Spinal Cord Cells	N600200
NeuroPure™ Primary E18 Midbrain Cells	N700200
NeuroPure™ Primary E18 Hippocampal Astrocytes	N800200
NeuroPure™ Primary E18 Cortical Astrocytes	N900200

Shipping & Storage	NeuroPrep™ Medium is shipped on blue ice and should be stored at 4° C upon receipt. It is stable for 6 months when stored properly.
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INTRODUCTION

The NeuroPrep™ Medium is unique nutrient-containing formulation optimized for partial enzymatic dissociation of neuronal tissues such as the NeuroPure™ and NeuroStem™ Primary Rat Neurons. NeuroPrep Medium provides for rapid and safe enzymatic digestion of primary rodent neuronal tissues when used in conjunction with NeuroPapain Enzyme (Cat#: NM100200). Following treatment with NeuroPrep Medium containing NeuroPapain Enzyme, neuronal tissues are more easily dissociated via mechanical trituration, and the number of viable dissociated cells can be increased by up to 100%. However, please note that for assays performed within 4 days of plating, some digestion of surface proteins is inevitable.

MATERIALS AND METHODS

Note: The following protocol has been validated for use with the NeuroPure Primary Rat Neuronal Cells. Please refer to the NeuroPure protocols for complete details.

1. Add 5 mg of NeuroPapain Enzyme into 2.5 ml of NeuroPrep Medium. Mix at 37°C for 15 minutes to completely dissolve the NeuroPapain. Sterilize this solution with a 0.2 µm filter prior to utilizing for tissue digestion. Use within 3 hours for best results.
2. Prior to enzymatic treatment, allow the neuronal tissue to settle for 15 - 30 minutes at 4°C. Alternatively, place the tube containing the tissue in a 50 ml tube and spin down the cells at 1,100 rpm (200xg) for 1 minute.

NeuroPrep Medium

Transfer the medium from the cell vial to a separate sterile tube while being careful not to remove any loose tissue pieces. Save the medium for trituration following NeuroPapain treatment.

3. Immediately add 2 ml of sterile NeuroPapain solution to the tissue-containing tube, and allow the neuronal tissue to incubate for 30 minutes at 30 °C. Swirl every two minutes by hand.
4. Following incubation, spin down the cells at 1,100 rpm (200xg) for 1 minute. Remove the NeuroPapain solution, again being careful not to disturb or remove the tissue.
5. Add 1 ml of shipping medium back to the neuronal cells. Save the other 1 ml of shipping medium for Step 4 in the NeuroPure protocol.
6. Proceed to Step 3 in the NeuroPure protocol.