

Product sheet

**Neuro-2a | 400394**

**Neuro-2a**

**Description** Neuro-2a (N2A) is a cell line derived from the neuroectoderm of the *Drosophila melanogaster* embryo. It is a highly proliferative, immortalized cell line that expresses a variety of neurotrophic factors and is used for studying neurogenesis and neurodegeneration. The cell line is maintained in a serum-free medium and is highly sensitive to oxidative stress. It is a valuable tool for studying the molecular mechanisms of neurodegeneration and for testing potential neuroprotective agents.

**Organism** *Drosophila melanogaster*

**Disease** Neurodegeneration

**Synonyms** NEURO-2A, Neuro 2a, Neuro2a, Neuro2A, N-2a, N2a, N2A, Nb2a, NB2a

**Neuro-2a**

**Breed/Subspecies** *Drosophila melanogaster*

**Cell type** Neuroectoderm

**Growth properties** Neuro-2a cells are highly proliferative and are maintained in a serum-free medium. They are highly sensitive to oxidative stress and are used for studying neurodegeneration and neuroprotection.

**Neuro-2a**

**Citation** Neuro-2a (Cytion 400394)

**Biosafety level** 1

**NCBI\_TaxID** 10090

**CellosaurusAccession** CVCL\_0470

**Neuro-2a**

**Antigen expression** Neuro-2a cells express a variety of neurotrophic factors and are used for studying neurogenesis and neurodegeneration.

**Viruses** Neuro-2a cells are highly sensitive to oxidative stress and are used for studying neurodegeneration and neuroprotection.

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**Virus resistance**

**Reverse transcriptase**

**Products**

**Neuro-2a**

**Culture Medium** EMEM (MEM Eagle), w: 2 mM L-Glutamine, w: 2.2 g/L NaHCO<sub>3</sub>, w: EBSS ( Cytion 820100a)

**Supplements**  FBS 10%  NEAA 1%

**Dissociation Reagent**

**Subculturing**  PBS  T25

**Split ratio**  1:4

**Seeding density**  $1 \times 10^4$  /

**Fluid renewal** 1  2

**Post-Thaw Recovery**  24

**Freeze medium**  ( FBS) + 10% DMSO

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**Thawing and Culturing Cells**

1. 

1. **Neuro-2a** cryovial **Neuro-2a** -150 **Neuro-2a** **Neuro-2a** 37°C **Neuro-2a**
2. 

2. **Neuro-2a** cryovial **Neuro-2a** -150 **Neuro-2a** **Neuro-2a**
3. 

3. **Neuro-2a** **Neuro-2a** 37°C **Neuro-2a**
4. 

4. **Neuro-2a** 70%
5. 

5. **Neuro-2a** 15 **Neuro-2a**
6. 

6. **Neuro-2a** 300 x g **Neuro-2a** 3 **Neuro-2a** **Neuro-2a**
7. 

7. **Neuro-2a** 10 **Neuro-2a** **Neuro-2a**
8. 

8. **Neuro-2a**

**Incubation Atmosphere** 37°C, 5% CO<sub>2</sub>, **Neuro-2a**

**Flask Coating** **Neuro-2a**

**Freezing Procedure** **Neuro-2a**

**Shipping Conditions** **Neuro-2a**

**Storage Conditions** **Neuro-2a** -150 **Neuro-2a** -196 °C **Neuro-2a**

**Neuro-2a** / **Neuro-2a** / HLA

**Sterility** **Neuro-2a** PCR **Neuro-2a**  
**Neuro-2a** **Neuro-2a** **Neuro-2a**

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**STR**

**Amelogenin:** ,

**M\_18-3:** 22

**M\_4-2:** 21.3,22.3

**M\_6-7:** 12

**M\_3-2:** 13,14

**M\_19-2:** 12

**M\_7-1:** 25. ,

**M\_1-1:** 11

**M\_8-1:** 16,17

**M\_2-1:** 16

**M\_15-3:** 21.3, 22.3, 23.3

**M\_6-4:** 18,2

**M\_11-2:** 15,16

**M\_1-2:** 17,18

**M\_17-2:** 16

**M\_12-1:** 16

**M\_5-5:** 15,17

**M\_X-1:** 26,27

**M\_13-1:** 16.2,17.2

**Human D4/D8:** - " "