

## Cell-Vive™ N-2 CD Prime Supplement (100X), GMP

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| <b>Catalog# / Size</b> | 420522 / 5 mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Other Names</b>     | Neural Cell Culture Media Supplement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>     | <p>Cell-Vive™ N-2 CD Prime Supplement (100X), GMP is a chemically-defined, animal component-free supplement that can be added as 1X to base cell culture media formulations to support expansion, and differentiation of neural stem or progenitor cells in the presence of selected growth factors. This GMP product is suggested for use in research and <i>ex vivo</i> cell processing. This product is supplied as a 100X concentrate. Benefits include:</p> <ul style="list-style-type: none"> <li>• Chemically-defined formulation.</li> <li>• Manufactured in a GMP facility according to USP &lt;1043&gt;.</li> <li>• Able to support the expansion of neural stem or progenitor cells.</li> <li>• Consistent performance when used in long term cultures and differentiation protocols.</li> </ul> |

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| <b>Quality Statement</b> | <p>BioLegend Cell-Vive™ GMP cell culture products are manufactured and tested in accordance with USP Chapter 1043, Ancillary Materials for Cell, Gene and Tissue- Engineered Products and Ph. Eur. Chapter 5.2.12 in a dedicated GMP facility compliant with ISO 13485:2016. Specifications and processes include:</p> <ul style="list-style-type: none"> <li>• Low endotoxin level (&lt; 1.0 EU/mL for 1X solution)</li> <li>• Mycoplasma and bacterial/fungal growth testing</li> <li>• Batch-to-batch consistency</li> <li>• Vendor qualification</li> <li>• Raw material traceability and documentation</li> <li>• Documented procedures and employee training</li> <li>• Equipment maintenance and monitoring records</li> <li>• Lot-specific certificates of analysis</li> <li>• QA review of released products</li> <li>• Quality audits per ISO 13485:2016</li> </ul> |
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### Product Details

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| <b>Formulation</b>            | Cell-Vive™ N-2 CD Prime Supplement (100X), GMP is an 100X, chemically-defined, animal component-free solution to be used as 1X in basal cell culture media.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Endotoxin Level</b>        | < 1.0 EU/mL for 1X solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Preparation</b>            | Thaw the supplement at 2-8°C in the dark. After thaw, it is to be used as 1X in basal cell culture media.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage &amp; Handling</b> | Store frozen between -20°C to -5°C <b>in the dark</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Application</b>            | <a href="#">Cell Culture</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Recommended Usage</b>      | Cell-Vive™ N-2 CD Prime Supplement (100X), GMP is a 100X solution to be used as 1X in basal cell culture media.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Application Notes</b>      | Application note will include neural progenitor cell expansion and differentiation when supplemented to the basal media with applicable growth factors. Thaw Cell-Vive™ N-2 CD Prime Supplement (100X), GMP overnight at 4°C. The product can be stored at 4°C in the dark for up to 2 weeks post-thaw. <b>Do not refreeze after initial thaw.</b> The presence of cloudiness in the product may be observed after thaw. This is normal and relates to the high enrichment of the product. Make sure to mix product prior to use. Once the product is diluted into basal media, no cloudiness should be observed. |
| <b>Disclaimer</b>             | BioLegend Cell-Vive™ GMP Cell Culture products are for research use only. Suitable for <i>ex vivo</i> cell processing. Not for injection or diagnostic or therapeutic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.                                                                                                                                                                                                                                                                                        |

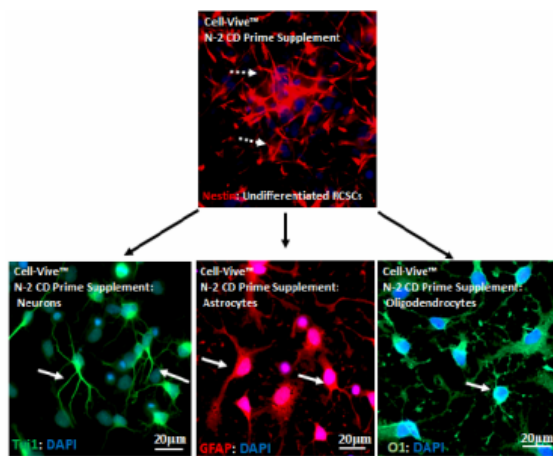
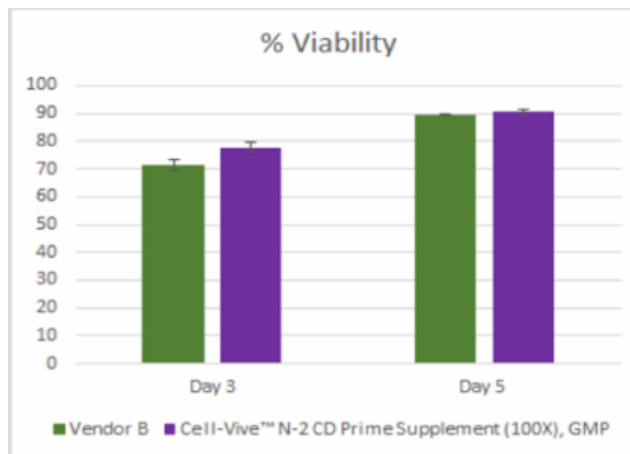
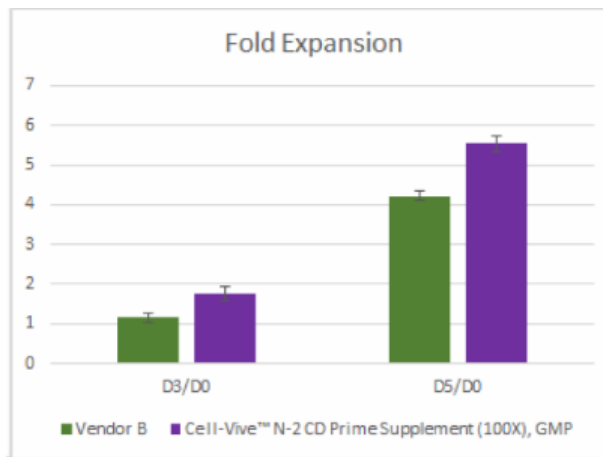
### Antigen Details

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| <b>Gene ID</b> | NA |
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### Product Data

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Neural Progenitor Cells expanded with Cell-Vive™ N-2 CD Prime Supplement (100X), GMP media. Rat Cortical Stem cells were cultured for 5 days in media supplemented with Cell-Vive™ N-2 CD Prime Supplement (100X) or similar N-2 product from vendor B in the presence of 20 ng/mL of recombinant human FGF-basic (Cat# 713304). Fold expansion was calculated on Day 3 and Day 5 in culture.

Neural Progenitor Cells viability with Cell-Vive™ N-2 CD Prime Supplement (100X), GMP media. Rat Cortical Stem cells were cultured for 5 days in media supplemented with Cell-Vive™ N-2 CD Prime Supplement (100X) or similar N-2 product from vendor B in the presence of 20 ng/mL of recombinant human FGF-basic (Cat# 713304). Viability was measured at Day 3 and Day 5.

Cell-Vive™ N-2 CD Prime Supplement (100X), GMP supports quality expansion of multipotent Neural Progenitor Cells after expansion. Rat Cortical Stem Cells were grown for 7 days *in vitro* in media supplemented with Cell-Vive™ N-2 CD Prime Supplement (100X) in absence of recombinant human FGF-basic. Stem cell expression marker (Alexa Fluor 594 anti-Nestin antibody, Cat #655105, clone Rat-401) was used to stained undifferentiated Rat Cortical Stem Cells. Following the withdrawal of FGF basic, cells were randomly differentiated into neurons, astrocytes, and oligodendrocytes. Markers of lineage differentiation were detected using Alexa Fluor 488 -conjugated anti-neuronal marker Tubulin β3 antibody (green, clone Tuj1, Cat# 801203) Alexa Fluor 594 -conjugated astrocyte marker GFAP antibody (red, clone 2E1.E9, Cat# 644708) and Alexa Fluor 594-conjugated oligodendrocyte marker O1 antibody (green, clone O1, Cat# 607755). Cell nuclei were counterstained with DAPI (blue). Round dot arrows indicate undifferentiated cells and solid arrows indicates differentiated cells.

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