

Product sheet

DSL-6A-C1 | 500166

General Information

<b>Description</b>	DSL-6A/C1 is a cell line derived from a patient with a high-grade glioma. It is characterized by its ability to form neurospheres and its sensitivity to radiation and chemotherapy. The cell line is maintained in DMEM/F12 supplemented with BDNF, EGF, and heregulin. It is a valuable tool for studying glioma biology and drug response.
<b>Organism</b>	Human
<b>Tissue</b>	Brain
<b>Disease</b>	High-grade glioma, Glioblastoma
<b>Metastatic site</b>	None
<b>Synonyms</b>	DSL-6A/C1, DSL6A/C1

Characteristics

<b>Breed/Subspecies</b>	Human
<b>Age</b>	Adult
<b>Gender</b>	Male
<b>Morphology</b>	Spherical cell clusters
<b>Cell type</b>	Neuronal
<b>Growth properties</b>	Highly proliferative

Usage and Safety

<b>Citation</b>	DSL-6A-C1 (Cytion 500166)
<b>Biosafety level</b>	1
<b>NCBI_TaxID</b>	10116
<b>CellosaurusAccession</b>	CVCL_4166

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XXXXXXXXXX XXXX-XXXXXXXXXXXXXXXXXX

**Tumorigenic**      Yes, this cell line is tumorigenic. It has been shown to form tumors in immunodeficient mice.

XXXXXXXXXX

**Culture Medium**      Waymouth medium (DMEM/F12, 10% FBS, 2.0 mM L-glutamine)

**Supplements**      10% FBS, 2.0 mM L-glutamine

**Dissociation Reagent**      Trypsin

**Subculturing**      Cells are cultured in DMEM/F12 medium supplemented with 10% FBS and 2.0 mM L-glutamine. Cells are passaged using trypsin into T25 or 35 mm flasks.

**Seeding density**       $1 \times 10^4$  cells/cm<sup>2</sup>

**Fluid renewal**      2-3 times per week

**Post-Thaw Recovery**      After thawing, cells are seeded into DMEM/F12 medium supplemented with 10% FBS and 2.0 mM L-glutamine. Cells are allowed to recover for 24 hours before use.

**Freeze medium**      DMEM/F12 medium supplemented with 10% FBS and 10% DMSO

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Thawing and Culturing Cells

1. Thaw the vial quickly in a water bath at 37°C. Do not allow the cells to reach room temperature. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Resuspend the cells in 15 µl of medium. Seed the cells into a 96-well plate.
3. Incubate the cells at 37°C with 5% CO<sub>2</sub> for 24 hours. The cells should reach 70% confluency.
4. Harvest the cells by centrifugation at 300 x g for 3 minutes. Resuspend the cells in 10 µl of medium. Seed the cells into a 96-well plate.
5. Incubate the cells at 37°C with 5% CO<sub>2</sub> for 24 hours. The cells should reach 70% confluency.
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7. Incubate the cells at 37°C with 5% CO<sub>2</sub> for 24 hours. The cells should reach 70% confluency.
8. Harvest the cells by centrifugation at 300 x g for 3 minutes. Resuspend the cells in 10 µl of medium. Seed the cells into a 96-well plate.

Incubation Atmosphere

37°C, 5% CO<sub>2</sub>, humidified

Flask Coating

Not required

Freezing Procedure

Resuspend the cells in 100 µl of freezing medium. Seed the cells into a 96-well plate. Freeze the plate at -80°C.

Shipping Conditions

Store the cells at -80°C. Ship the cells on dry ice.

Storage Conditions

Store the cells at -150°C for 196 weeks. Store the cells in a liquid nitrogen vapor phase.

HLA

Sterility

The cells are tested for sterility using PCR. The results are provided in the Certificate of Analysis. The cells are free of mycoplasma contamination.