

# U-87 MG | 300367

## General Information

<b>Description</b>	U87MG, U87MG-1, U87MG-2, U87MG-3, U87MG-4, U87MG-5, U87MG-6, U87MG-7, U87MG-8, U87MG-9, U87MG-10, U87MG-11, U87MG-12, U87MG-13, U87MG-14, U87MG-15, U87MG-16, U87MG-17, U87MG-18, U87MG-19, U87MG-20, U87MG-21, U87MG-22, U87MG-23, U87MG-24, U87MG-25, U87MG-26, U87MG-27, U87MG-28, U87MG-29, U87MG-30, U87MG-31, U87MG-32, U87MG-33, U87MG-34, U87MG-35, U87MG-36, U87MG-37, U87MG-38, U87MG-39, U87MG-40, U87MG-41, U87MG-42, U87MG-43, U87MG-44, U87MG-45, U87MG-46, U87MG-47, U87MG-48, U87MG-49, U87MG-50, U87MG-51, U87MG-52, U87MG-53, U87MG-54, U87MG-55, U87MG-56, U87MG-57, U87MG-58, U87MG-59, U87MG-60, U87MG-61, U87MG-62, U87MG-63, U87MG-64, U87MG-65, U87MG-66, U87MG-67, U87MG-68, U87MG-69, U87MG-70, U87MG-71, U87MG-72, U87MG-73, U87MG-74, U87MG-75, U87MG-76, U87MG-77, U87MG-78, U87MG-79, U87MG-80, U87MG-81, U87MG-82, U87MG-83, U87MG-84, U87MG-85, U87MG-86, U87MG-87, U87MG-88, U87MG-89, U87MG-90, U87MG-91, U87MG-92, U87MG-93, U87MG-94, U87MG-95, U87MG-96, U87MG-97, U87MG-98, U87MG-99, U87MG-100
<b>Organism</b>	Human
<b>Tissue</b>	Brain
<b>Disease</b>	Glioblastoma
<b>Synonyms</b>	U-87MG, U87 MG, U-87-MG, U87-MG, U-87 MG, U-87, U87, 87 MG, 87MG

## Cell Characteristics

<b>Age</b>	44 days
<b>Gender</b>	Male
<b>Ethnicity</b>	Caucasian
<b>Morphology</b>	Epithelial
<b>Growth properties</b>	Adherent

## Identification & Safety

<b>Citation</b>	U87MG (ATCC CCL-221) Cytion 300367
<b>Biosafety level</b>	1
<b>NCBI_TaxID</b>	9606
<b>CellosaurusAccession</b>	CVCL_0022

**U-87 MG | 300367**

**Cell Line**

**Isoenzymes** Me-2, 1, PGM3, 1, PGM1, 2, ES-D, 1, AK-1, 1, GLO-1, 1, G6PD, B

**Tumorigenic** Yes, tumorigenic in nude mice. Inoculation of 10<sup>7</sup> cells

**Characteristics**

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

**Supplements** 10% FBS 1% NEAA

**Dissociation Reagent** Trypsin

**Subculturing** Cells are grown in T25, 3-5 x 10<sup>6</sup> cells per flask. Cells are passaged every 3-5 days. Cells are passaged by trypsinization and resuspension in medium.

**Seeding density** 4 x 10<sup>4</sup> cells/cm<sup>2</sup>

**Freeze medium** 50% FBS + 10% DMSO, CM-1 (Cytion 800100), 50% FBS

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**Thawing and Culturing Cells**

1. Thaw the vial rapidly in a water bath at 37°C. Do not allow the cells to reach room temperature. Transfer the cells to a pre-warmed T25 flask containing 10 ml of complete medium.
2. Allow the cells to settle for 15 minutes. Add 10 ml of complete medium to the flask. Incubate the cells at 37°C in 5% CO<sub>2</sub>.
3. After 24 hours, check the cells for attachment. If the cells have not attached, replace the medium with fresh complete medium.
4. Once the cells are attached, they can be passaged. Remove the medium and wash the cells with PBS. Add 1 ml of trypsin-EDTA solution and incubate for 5 minutes at 37°C.
5. Add 1 ml of complete medium to stop the trypsin. Pipette the cells into a 15 ml centrifuge tube. Centrifuge at 300 x g for 5 minutes.
6. Remove the supernatant and resuspend the cell pellet in 1 ml of complete medium. Count the cells using a hemacytometer.
7. Seed the cells into a new T25 flask at a density of 1 x 10<sup>5</sup> cells per flask. Add 10 ml of complete medium. Incubate at 37°C in 5% CO<sub>2</sub>.
8. Once the cells are in the log phase of growth, they can be used for experiments.

**Incubation Atmosphere** 37°C, 5% CO<sub>2</sub>, humidified

**Flask Coating** None

**Freezing Procedure** Harvest cells at 70-80% confluency. Wash with PBS, add 1 ml of freezing medium, and centrifuge at 300 x g for 5 minutes. Resuspend in 100 µl of freezing medium and store at -80°C.

**Shipping Conditions** Cells can be shipped at room temperature for up to 24 hours. For longer shipping times, use dry ice and store at -80°C.

**Storage Conditions** Cells can be stored at room temperature for up to 24 hours. For longer storage times, use dry ice and store at -80°C.

**Genotype / HLA**

**Sterility** Cells are free of mycoplasmas and other contaminants. PCR testing confirmed the absence of mycoplasmas.

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**HLA**

**A\***: 02:01:01

**B\***: '44:02:01

**C\***: 05:01:01

**DRB1\***: 15:01:01

**DQA1\***: 01:02:01

**DQB1\***: 06:02:01

**DPB1\***: 06:01:01

**E**: 01:01:01