

Product sheet

NCI-H2087 | 305824

NCI-H2087

**Description** NCI-H2087 is a cell line derived from a patient with non-small cell lung cancer (NSCLC). It is a highly tumorigenic cell line that grows in soft agar and is capable of forming xenografts in immunodeficient mice. NCI-H2087 is a highly tumorigenic cell line derived from a patient with non-small cell lung cancer (NSCLC). It is a highly tumorigenic cell line that grows in soft agar and is capable of forming xenografts in immunodeficient mice.

**Organism** Human

**Tissue** Lung

**Disease** Non-small cell lung cancer

**Synonyms** H2087, H-2087, NCIH2087

Characteristics

**Age** 69 years

**Gender** Male

**Ethnicity** Caucasian

**Morphology** Epithelial cells, adherent

**Growth properties** High tumorigenicity

References

**Citation** NCI-H2087 (ATCC CCL-1524) Cytion 305824

**Biosafety level** 1

**NCBI\_TaxID** 9606

**CellosaurusAccession** CVCL\_1524

Additional information

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**Mutational profile** ATM, p.Glu848Gln (c.2542G>C), BRAF, p.Leu597Val (c.1789C>G), MYC, p.Gln61Lys (c.181C>A), TP53, p.Val157Phe (c.469G>T)

**NCI-H2087**

**Culture Medium** RPMI 1640, w: 2.0 mM  $\beta$ -mercaptoethanol, w: 2.0 g/L NaHCO<sub>3</sub> (Cytion 820700a)

**Supplements** 51  $\mu$ M

**Dissociation Reagent** Trypsin

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

**Freeze medium** RPMI 1640, 10% FBS, 10% DMSO

**Thawing and Culturing Cells**

1. Thaw cells rapidly in a 37°C water bath, transfer to a pre-warmed medium, and centrifuge at 300 x g for 5 minutes.
2. Resuspend cells in pre-warmed medium and count cells using a hemocytometer. Seed cells into a 25 cm<sup>2</sup> flask at a density of 70% confluence.
3. Incubate cells in a humidified 5% CO<sub>2</sub> incubator at 37°C until cells reach 70-80% confluence.
4. Harvest cells by trypsinization and resuspend in fresh medium.
5. Seed cells into a 25 cm<sup>2</sup> flask at a density of 70% confluence.
6. Incubate cells in a humidified 5% CO<sub>2</sub> incubator at 37°C until cells reach 70-80% confluence.
7. Harvest cells by trypsinization and resuspend in fresh medium.

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

**Flask Coating** None

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**Freezing Procedure** [redacted] -78°C

**Shipping Conditions** [redacted] -78°C

**Storage Conditions** [redacted] -150 to 196

[redacted] / [redacted] / HLA