

Product sheet

NCI-H2228 | 305125

General information

Description	Human cell line established in 1989 from a patient with a malignant melanoma. The cells are highly tumorigenic and grow as epithelial sheets.
Organism	Human
Tissue	Melanoma
Disease	Melanoma
Synonyms	NCI-H2228, H-2228, NCIH2228

Cell characteristics

Gender	Male
Ethnicity	White
Morphology	Epithelial
Growth properties	Adherent

Cell culture conditions

Citation	NCI-H2228 (Cytion 305125)
Biosafety level	1
NCBI_TaxID	9606
CellSaurusAccession	CVCL_1543

Media and supplements

Media

Culture Medium	RPMI 1640, w: 2.0 mM Glucose, w: 2.0 g/L NaHCO3 (Cytion 820700a)
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Supplements 10% FBS

Dissociation Reagent

Subculturing Cells are grown in 25 cm² flasks in DMEM supplemented with 10% FBS. For passage, cells are trypsinized and seeded into new flasks at a density of 1 x 10⁵ cells per flask. Cells are grown in DMEM supplemented with 10% FBS.

Split ratio 1:2 to 1:4

Fluid renewal 2 to 3 times per week

Freeze medium Cells are frozen in DMEM supplemented with 10% FBS and 10% DMSO. The freezing medium is stored at -80°C.

Thawing and Culturing Cells

1. Thaw the cells in a water bath at 37°C.
2. Add 10 ml of DMEM supplemented with 10% FBS to the cells.
3. Seed the cells into a 25 cm² flask.
4. Allow the cells to attach for 24 hours.
5. Replace the medium with DMEM supplemented with 10% FBS.
6. Allow the cells to grow for 24 hours.
7. Harvest the cells for analysis.
8. Repeat the process for the next passage.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating None

Freezing Procedure Cells are frozen in DMEM supplemented with 10% FBS and 10% DMSO. The freezing medium is stored at -80°C.

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Shipping
Conditions

Store at -78°C

Storage
Conditions

Store at -150 to -196 °C

NCI-H2228

Sterility

PCR

STR

- Amelogenin: x,x
- CSF1PO: 12
- D13S317: 11
- D16S539: 11,13
- D5S818: 12
- D7S820: 11
- TH01: 7,8
- TPOX: 11
- vWA: 15,17
- D3S1358: 16,18
- D21S11: 28,3
- D18S51: 16
- Penta E: 11,16
- Penta D: 11,13
- D8S1179: 13
- FGA: 21,22
- D6S1043: 13,14
- D2S1338: 17
- D12S391: 19,22
- D19S433: 14,15