#### **Product sheet**



## NCI-H524 Cells | 305120

#### **General information**

**Description**The line was established in 1982 from metastatic lymph nodes of a 63-year-old male Caucasian smoker with non-small cell lung carcinoma. The patient received prior chemotherapy and radiation therapy.

Organism Human

Tissue Lung

**Disease** Lung small cell carcinoma

Metastatic site Lymph Nodes

**Synonyms** NCI-H524, H-524, NCIH524

### **Characteristics**

Age 63 years

**Gender** Male

**Ethnicity** European

Morphology Rounded

**Growth** Su properties

Suspension

# **Identifiers / Biosafety / Citation**

**Citation** NCI-H524 (Cytion catalog number 305120)

Biosafety level

# **Expression / Mutation**

# **Handling**

Medium

**Culture** RPMI 1640, w: 2.1 mM stable Glutamine, w: 2.0 g/L NaHCO3 (Cytion article number 820700a)

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Medium supplements	Supplement the medium with 10% FBS
Doubling time	100 hours
Subculturing	Maintain cultures by periodically adding or replacing the medium. Initiate cultures with a density of $2 \times 10^5$ cells/ml and keep the cell concentration within the range of $1 \times 10^5$ to $1 \times 10^6$ cells/ml for optimal growth.
Split ratio	1?10^5 to 1?10^6 cells/mL
Fluid renewal	2 to 3 times per week
Freeze medium	CM-1 (Cytion catalog number 800100)

#### Handling of cryopreserved cultures

- 1. Confirm that the vial remains deeply frozen upon delivery, as cells are shipped on dry ice to maintain optimal temperatures during transit.
- 2. Upon receipt, either store the cryovial immediately at temperatures below -150°C to ensure the preservation of cellular integrity, or proceed to step 3 if immediate culturing is required.
- 3. For immediate culturing, swiftly thaw the vial by immersing it in a 37°C water bath with clean water and an antimicrobial agent, agitating gently for 40-60 seconds until a small ice clump remains.
- 4. Perform all subsequent steps under sterile conditions in a flow hood, disinfecting the cryovial with 70% ethanol before opening.
- 5. Carefully open the disinfected vial and transfer the cell suspension into a 15 ml centrifuge tube containing 8 ml of room-temperature culture medium, mixing gently.
- 6. Centrifuge the mixture at 300 x g for 3 minutes to separate the cells and carefully discard the supernatant containing residual freezing medium.
- 7. Gently resuspend the cell pellet in 10 ml of fresh culture medium. For adherent cells, divide the suspension between two T25 culture flasks; for suspension cultures, transfer all the medium into one T25 flask to promote effective cell interaction and growth.
- 8. Adhere to established subculture protocols for continued growth and maintenance of the cell line, ensuring reliable experimental outcomes.

# Quality control / Genetic profile / HLA

### **Product sheet**



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### **Sterility**

Mycoplasma contamination is excluded using both PCR-based assays and luminescence-based mycoplasma detection methods.

To ensure there is no bacterial, fungal, or yeast contamination, cell cultures are subjected to daily visual inspections.

### STR profile Amelogenin: x,x

**CSF1PO**: 12 **D13S317**: 12 **D16S539**: 12 **D5S818**: 12 **D7S820**: 11,12 **TH01**: 8,9.3 **TPOX**: 8,1 vWA: 14,17 **D3S1358**: 15 **D21S11**: 29,3 **D18S51**: 12,13 **Penta E**: 5,15 **Penta D**: 12,13 **D8S1179**: 13,15 **FGA**: 21,25 **D6S1043**: 11,13 **D2S1338**: 16,17 **D12S391**: 16,21 **D19S433**: 16