

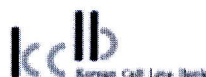


Certificate of analysis

KCLB Rev. Apr/2012

Distribution Date : 2019-12-02

- KCLB Number : 00423
- Cell Name : SNU-423 P22
- Origin : human : male, 40 years old, Mongoloid
- Tissue : liver
- Morphology : epithelial
- Growth Pattern : monolayer
- Histopathology : carcinoma, hepatocellular; primary
- STR profile (DNA fingerprinting)
- D3S1358 : 17,18
- vWA : 15
- FGA : 21,24
- Amelogenin : X,Y
- TH01 : 9
- TPOX : 8
- CSF1PO : 11,12
- D5S818 : 10
- D13S317 : 10,13
- D7S820 : 12
- Population Doubling time : 72 hours
- Split ratio : 1:4
- Fluid change : Remove two thirds of medium and add fresh medium (depending on cell density) every 2 to 3 days
- Depositor : Jae-Gahb Park, M.D.
- Originator : Jae-Gahb Park, M.D.
- Frozen media : RPMI1640, 52.5%^{400λ}; FBS, 40%; DMSO, 7.5% $\eta = 36\eta, 2800, 525$
- Original media : RPMI1640 with L-glutamine (300mg/L), 25mM HEPES and 25mM NaHCO₃, 90%; heat inactivated fetal bovine serum (FBS), 10%
- KCLB media : RPMI1640 with L-glutamine (300mg/L), 25mM HEPES and 25mM NaHCO₃, 90%; heat inactivated fetal bovine serum (FBS), 10%
- Subculture : Remove medium, add fresh 0.25 % trypsin 0.02 % EDTA solution, stand culture flask at 37°C for 3 to 5 minutes, add culture medium and collect the cells, transfer the medium into 15ml tube, centrifuge, aspirate the medium, resuspend the pellets with culture medium and dispense into the culture flask
- Reference : Park et al., Characterization of cell lines established from human hepatocellular carcinoma. Int J Cancer, 62: 276-282, 1995; Kang et al., Mutation of p53 gene in hepatocellular carcinoma cell lines with HBX DNA. Int. J. Cancer, 67: 898-902, 1996



Certificate of analysis

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- Lot Number : 24067
- Cell Name : SNU-423
- Total cells/mL : 2.0×10^6
- Expected viability : 90
- Mycoplasma test : negative

- QC test : Yes
- Passage no : 22
- Volume Cell Line Bank : 1ml

Certificate of analysis

KCLB Rev. Apr/2012

Handwritten initials: *SS*

Expiry Date: 2012-12-31

Cell Name: *SKNSH*
 Cell Number: *0012*
 Passage: *22*
 Date: *10/11*
 Volume: *1ml*
 QC test: *Yes*
 Passage no: *22*
 Volume: *1ml*

The cell line was established from a primary culture of *SKNSH* cells. The cells were maintained in *DMEM* supplemented with *10% FBS*. The cell line was characterized by *flow cytometry* and *PCR* analysis. The cell line was found to be *90% pure* and *authenticated*. The cell line was deposited in the *Cell Line Bank* on *10/11*.

Certificate of analysis

Cell Name: *SKNSH*
 Cell Number: *0012*
 Passage: *22*
 Date: *10/11*
 Volume: *1ml*
 QC test: *Yes*
 Passage no: *22*
 Volume: *1ml*