

## CERTIFICATE OF ANALISYS

**Lot#:** CHum2003-ST-Z P3

### PRODUCT DESCRIPTION

**Reference:** HuSC

**Product:** Human Stellate Cells

**Cellular Passage:** P3

**Isolation date:** 11/06/2020

**Size/Quantity:**  $\geq 1 \times 10^5$  cells/ vial

**Storage conditions:** Storage conditions: -196°C

### DONOR DEMOGRAPHICS

Species	Sex	Race	Age	BMI	Smoker	Alcohol Use	Drug Use
Human	Male	Caucasian	75	20.52	No	No	No

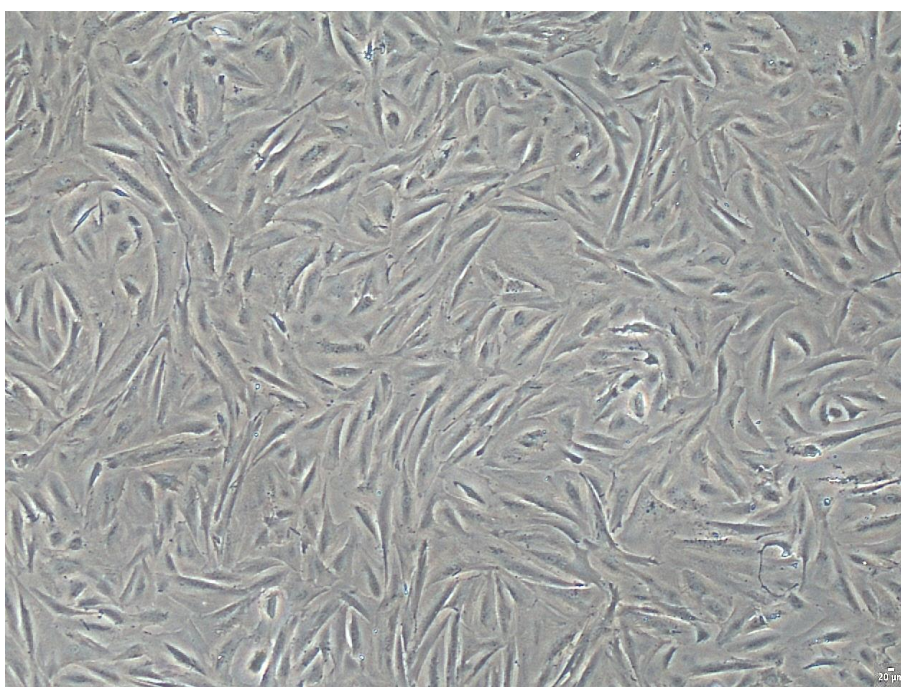
Pathology	Medications	Serological Data
Metastasis of a neuroendocrine carcinoma of the lung	N/A	Tested negative less than 3 months before surgery

Patient informed consent was obtained. The donor was serologically tested negative for following infectious diseases: HIV, Hepatitis B and C. Donor medical history were also examined prior to accepting this donor.

For *in vitro* use only, not to be used for clinical application. Products distributed by Cytes Biotechnologies may contain human material that should be treated as potentially hazardous.

<b>HSC Lot information</b>	
<b>Pre-thaw viability:</b>	98.52 %
<b>Number of viable cells post-thaw:</b>	100.000 cells/ vial
<b>Seeding density recommended:</b>	4.000 cells/cm <sup>2</sup>

**Cell morphology 5 days after seeding**

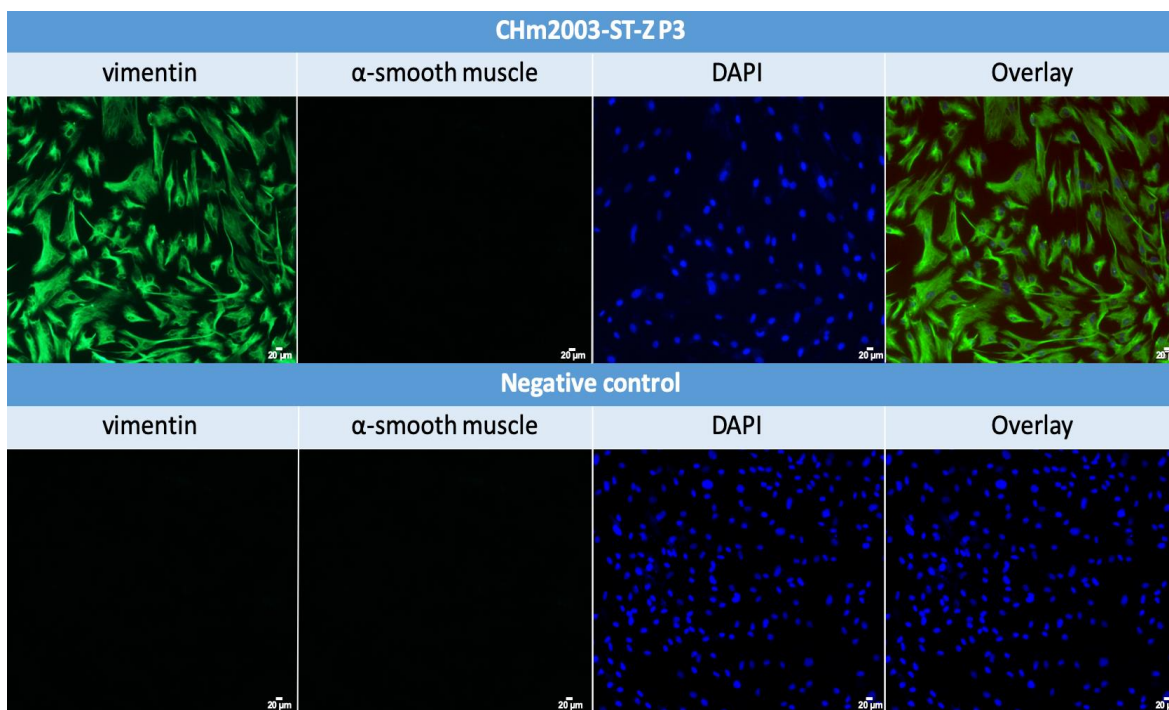


Human stellate cells were thawed and seeded according to Cytes Biotechnologies protocol. The number of cells and viability post-thawing was assessed by using the trypan blue exclusion assay. Phase-contrast images are shown on the panel.

## STELLATE CELLS IMMUNOPHENOTYPING

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Human stellate cells are positive for vimentin and negative for  $\alpha$ -smooth muscle actin when they are quiescent. When they become activated, they start to express  $\alpha$ -smooth muscle actin.



Cells were cultured on 8 well chamber slide till reach the confluence. Green immunofluorescence for vimentin is evident in the cell body and cytoplasmic processes in the cultured stellate cells. Red immunofluorescence for  $\alpha$ -smooth muscle actin is negative. Blue immunofluorescence for DAPI shows the cellular nuclei. Negative control is showed in the bottom panel with all the markers used for the HSC.

### CERTIFICATION:

Name	Title	Signature	Date
Aina Soria	Quality Manager		10/08/2020

Cytes Biotechnologies, S.L.