

Data Sheet

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BCRJ Code:	0264
Cell Line:	Calu-3
Species:	Homo sapiens
Vulgar Name:	Human
Tissue:	Lung Adenocarcinoma; Derived From Metastatic Site: Pleural Effusion
Cell Type:	Epithelial
Morphology:	Epithelial
Disease:	Adenocarcinoma
Growth Properties:	Adherent
Sex:	Male
Age/Ethinicity:	25 Year / Caucasian
Applications:	This cell line is a suitable transfection host.
DNA Profile:	Amelogenin: X CSF1PO: 11,12 D13S317: 12 D16S539: 12,14 D5S818: 11 D7S820: 10,11 THO1: 6,9.3 TPOX: 8 vWA: 16,17
Tumor Formation::	Yes, forms well differentiated grade I adenocarcinoma in nude mice
Products:	Antigen expression: Blood Type A; Rh+
Biosafety:	1
Addtional Info:	The patient had received prior therapy with cytoxan, bleomycin and adriamycin.

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Culture Medium:	Dulbecco's Modified Eagle's Medium (DMEM) with 1% non-es acids, 2 mM L-glutamine, 1 mM sodium pyruvate, 1.0 g/L gluc of fetal bovine serum.	
Subculturing:	Remove and discard culture medium. Briefly rinse the cell laye without calcium and magnesium to remove all traces of serum trypsin inhibitor. Add 2.0 to 3.0 mL of Trypsin-EDTA solution to observe cells under an inverted microscope until cell layer is d (usually within 5 to 15 minutes). Note: To avoid clumping do n cells by hitting or shaking the flask while waiting for the cells t that are difficult to detach may be placed at 37°C to facilitate 6.0 to 8.0 mL of complete growth medium and aspirate cells b pipetting. Add appropriate aliquots of the cell suspension to n vessels. T-75 flasks are recommended for subculturing this pro For more information on enzymatic dissociation and subcultur lines consult Chapter 12 in Culture of Animal Cells, a manual o Technique by R. Ian Freshney, 6th edition, published by Alan R 2010.	n that contains o flask and lispersed not agitate the o detach. Cells dispersal. Add by gently ew culture oduct. NOTE: ring of cell of Basic
Subculturing Medium Renewal:	2 to 3 times per week	
Subculturing Subcultivation Ratio:	1:3 to 1:6	
Culture Conditions:	Atmosphere: air, 95%; carbon dioxide (CO2), 5% Temperature	: 37°C
Cryopreservation:	95% FBS + 5% DMSO (Dimethyl sulfoxide)	

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Thawing Frozen Cells:	 SAFETY PRECAUTION: It is strongly recommended to always wear protective gloves, clothing, and a full-face mask when handling frozen vials. Some vials may leak when submerged in liquid nitrogen, allowing nitrogen to slowly enter the vial. Upon thawing, the conversion of liquid nitrogen back to its gas phase may cause the vial to explode or eject its cap with significant force, creating flying debris. 1. Thaw the vial by gently agitating it in a 37°C water bath. To minimize contamination, keep the O-ring and cap out of the water. Thawing should be rapid (approximately 2 minutes). 2. Remove the vial from the water bath as soon as its contents are thawed and decontaminate it by dipping in or spraying with 70% ethanol. From this point, all operations must be performed under strict aseptic conditions. 3. For cells sensitive to DMSO, it is recommended to remove the cryoprotective agent immediately. Transfer the vial contents to a centrifuge tube containing 9.0 mL of complete culture medium and centrifuge at approximately 125 × g for 5 to 7 minutes. 4. Discard the supernatant and resuspend the cell pellet in the recommended complete medium (see specific batch information for the appropriate dilution ratio). 5. Incubate the culture under appropriate atmospheric and temperature conditions (see "Culture Conditions" for this cell line). NOTE: It is important to avoid excessive alkalinity of the medium during cell recovery. To minimize this risk, it is recommended to place the culture vessel containing the growth medium in the incubator for at least 15 minutes before adding the vial contents. This allows the medium to stabilize at its normal pH (7.0 to 7.6). 	
References:	21869: . Human tumor cells in vitro. New York: Plenum Press; 1975. 22536: Fogh J, et al. Absence of HeLa cell contamination in 169 cell lines derived from human tumors. J. Natl. Cancer Inst. 58: 209-214, 1977. PubMed: 833871 22539: Fogh J, et al. One hundred and twenty-seven cultured human tumor cell lines producing tumors in nude mice. J. Natl. Cancer Inst. 59: 221-226, 1977. PubMed: 327080 24381: Fogh J. Cultivation, characterization, and identification of human tumor cells with emphasis on kidney, testis, and bladder tumors. Natl. Cancer Inst. Monogr. 49: 5-9, 1978. PubMed: 571047	
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