

Data Sheet

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BCRJ Code:	0419
Cell Line:	P19
Species:	Mus musculus
Vulgar Name:	Mouse; C3H/He
Tissue:	Embryo
Cell Type:	Epithelial
Morphology:	Epithelial
Disease:	Teratocarcinoma
Growth Properties:	Adherent
Sex:	Male
Age/Ethinicity:	Year /
Age/Ethinicity: Derivation:	
	Year / The P19 line was derived from an embryonal carcinoma induced in a C3H/He
Derivation:	Year / The P19 line was derived from an embryonal carcinoma induced in a C3H/He mouse.

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Culture Medium:	Alpha Minimum Essential Medium with ribonucleosides and deoxyribonucleosides; bovine calf serum to a final concentration of 7.5%; fetal bovine serum to a final concentration of 2.5%.
Subculturing:	Volumes are given for a 75 cm2 flask. Increase or decrease the amount of dissociation medium needed proportionally for culture vessels of other sizes. Do not allow the cells to become confluent. Remove and discard culture medium. Briefly rinse the cell layer with 0.25% (w/v) Trypsin- 0.53 mM EDTA solution to remove all traces of serum which contains trypsin inhibitor. Add 2.0 to 3.0 mL of Trypsin-EDTA solution to flask and observe cells under an inverted microscope until cell layer is dispersed (usually within 5 to 15 minutes). Note: To avoid clumping do not agitate the cells by hitting or shaking the flask while waiting for the cells to detach. Cells that are difficult to detach may be placed at 37°C to facilitate dispersal. Add 6.0 to 8.0 mL of complete growth medium and aspirate cells by gently pipetting. Add appropriate aliquots of the cell suspension to new culture vessels. Incubate cultures at 37°C.
Subculturing Medium Renewal:	Add fresh medium at least every 48 hours
Subculturing Subcultivation Ratio:	1:10 every 2 to 3 days is recommended
Culture Conditions:	Atmosphere: air, 95%; carbon dioxide (CO2), 5%
Cryopreservation:	95% FBS + 5% DMSO (Dimethyl sulfoxide)

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Cellosaurus:	<u>CVCL_2153</u>
Depositors:	Mari Cleide Sogayar - USP
References:	Bennicelli JL, et al. Mechanism for transcriptional gain of function resulting from chromosomal translocation in alveolar rhabdomyosarcoma. Proc. Natl. Acad. Sci. USA 93: 5455-5459, 1996. PubMed: 8643596 Jones-Villeneuve EM, et al. Retinoic acid induces embryonal carcinoma cells to differentiate into neurons and glial cells. J. Cell Biol. 94: 253-262, 1982. PubMed: 7107698 McBurney MW, Rogers BJ. Isolation of male embryonal carcinoma cells and their chromosome replication patterns. Dev. Biol. 89: 503-508, 1982. PubMed: 7056443 McBurney MW, et al. Control of muscle and neuronal differentiation in a cultured embryonal carcinoma cell line. Nature 299: 165-167, 1982. PubMed: 7110336
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).

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