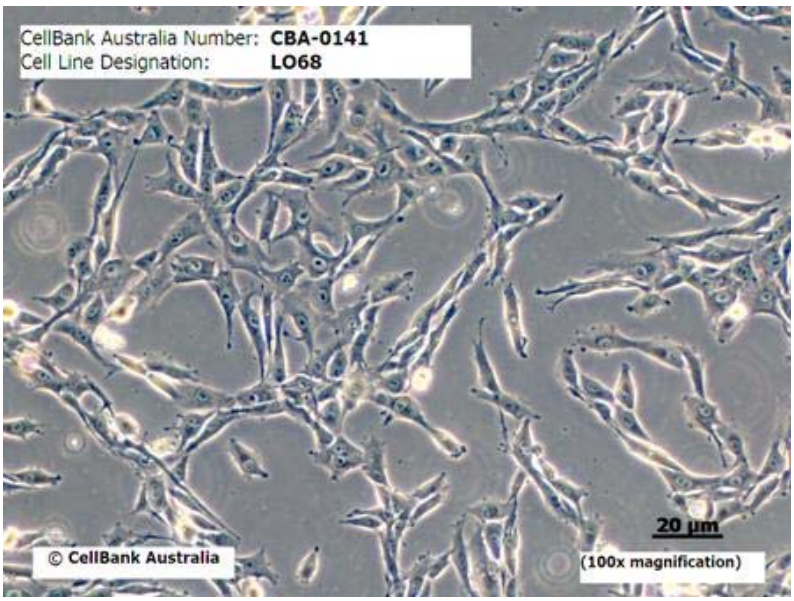
Cell Line Information Sheet for LO68

Cell Line Designation	LO68
CellBank Catalogue No.	CBA-0141
Lot Number	01410410G
Total Cell Number	1.87 x 10^6 cells
Expected Cell Viability	96%
Brief Description	Human mesothelioma cell line.
Organism	Human (*Homo Sapiens*)
Strain	
Tissue	Pleural cells
Growth Properties	Adherent
Morphology	Epithelial-like: cells are spindle-shaped with few vacuoles.
Image	
Growth Medium	RPMI1640 (with 2mM L-Glutamine+25mM HEPES) + 5% FCS
Subcultivation Ratio	Optimal split ratio 1:8 (seeding density 1.2 x10^4 cells/cm^2). Harvest the cells using 0.05% Trypsin/EDTA at 37°C for 5 min.
Biosafety Level	PC-2 This cell line is sent with the condition that you are responsible for its safe storage, handling and use. CellBank Australia is not liable for damages or injuries resulting from receipt and/or use of a CellBank culture.
Use Restrictions	These cells are distributed for research purposes only - refer to the Material Transfer Agreement (MTA).

CellBank Australia
214 Hawkesbury Road
Westmead, NSW, 2145
Australia

P: +61 (0)2-8865-2850
F: +61 (0)2-9687-2120
www.cellbankaustralia.com
info@cellbankaustralia.com

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Safety Precaution	CellBank Australia highly recommends that protective gloves and clothing always be used and a full-face mask always be worn when handling frozen vials. It is important to note that some vials leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vessel exploding or blowing off its cap with dangerous force creating flying debris.
Handling Procedure for Frozen Cells	To insure the highest level of viability, thaw the vial and initiate the culture as soon as possible upon receipt. Remove protective cryoflex layer prior to thaw. If upon arrival, continued storage of the frozen culture is necessary, it should be stored in liquid nitrogen vapour phase and not at -80°C. Storage at -80°C will result in loss of viability.
Establishing and Maintaining your Culture	Cells incubated at 37°C with 5% CO_2. Refer to Technical & Customer Service Information pamphlet.
Cryoprotectant Medium	10% DMSO + 90% FCS
Additional Information	Malignant mesothelial cells were obtained from the pleural effusion fluid of a male with known exposure to crocidolite asbestos. Cultures were established from centrifuged pleural cells after removal of debris and red cells by density gradient centrifugation in Ficoll-Paque. Cells displayed loss of contact inhibition and demonstrated piling and sloughing at confluence. LO68 cells express cytokeratin and epithelial membrane antigen (EMA), but not CEA or mucin.
Depositor	Richard Lake - University of Western Australia
References	Manning LS, Whitaker D, Murch AR, Garlepp MJ, Davis MR, Musk AW, Robinson BW (1991) Int J Cancer Jan 21;47(2):285-90
CellBank Warranty	While CellBank Australia uses reasonable efforts to include accurate and up-to date information on this product sheet, CellBank Australia makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. CellBank Australia does not warrant that such information has been confirmed to be accurate.
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Australia

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