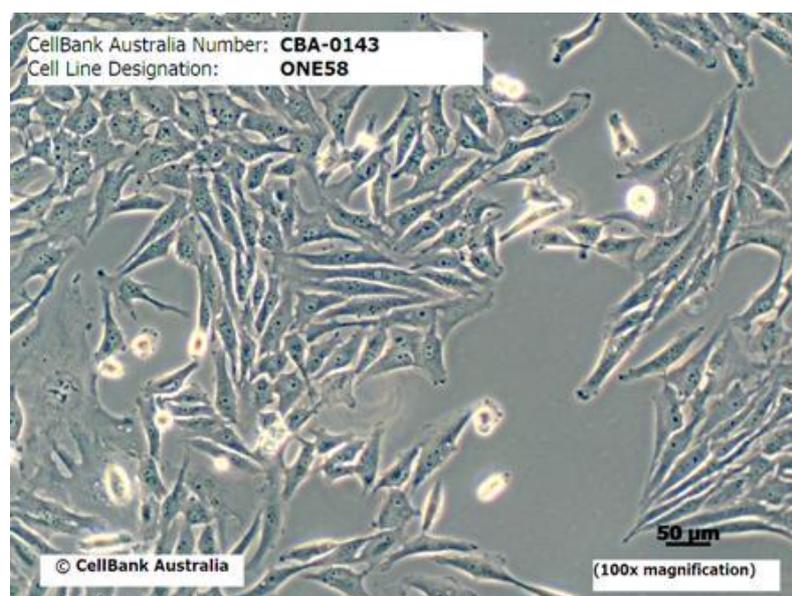


<b>Cell Line Designation</b>	ONE58
<b>CellBank Catalogue No.</b>	CBA-0143
<b>Lot Number</b>	01430110S
<b>Total Cell Number</b>	2.45 x 10 <sup>6</sup> cells
<b>Expected Cell Viability</b>	90%
<b>Brief Description</b>	Human mesothelioma cell line.
<b>Organism</b>	Human ( <i>Homo Sapiens</i> )
<b>Strain</b>	
<b>Tissue</b>	Pleural cells
<b>Growth Properties</b>	Adherent
<b>Morphology</b>	Epithelial-like: cells are spindle-shaped with few vacuoles.

**Image**



<b>Growth Medium</b>	RPMI 1640 (with 2mM L-Glutamine+25mM HEPES) + 5% FCS
<b>Subcultivation Ratio</b>	Optimal split ratio 1:4 (seeding density 1.2 x 10 <sup>4</sup> cells/cm <sup>2</sup> ). Harvest the cells using 0.05% Trypsin/EDTA at 37°C for 5 min. PC-2
<b>Biosafety Level</b>	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.
<b>Use Restrictions</b>	These cells are distributed for research purposes only - refer to the Material Transfer Agreement (MTA).

**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  
Cryoprotectant Medium**

Cells incubated at 37°C with 5% CO<sub>2</sub>.  
Refer to Technical & Customer Service Information pamphlet.  
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. ONE58 cells express cytokeratin and epithelial membrane antigen (EMA), but not CEA or mucin. Tumourgenic in nude mice.

**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**

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**Disclaimers**

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Please refer to the MTA for further details regarding the use of this product. The MTA is also available on our Web site at [www.cellbankaustralia.com](http://www.cellbankaustralia.com)