



ECACC news - July 2016

ECACC Top Tips : The difference between Passage and Population Doubling numbers

Q: I've just received my order for the [MRC-5 pd19 cell line](#). What is the passage number of the cells I have received?

Scroll down for the answer...



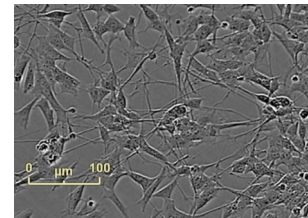
Mouse cDNA now available!

PCR-ready cell line cDNA: a transcriptome tool for cell line selection

One common question which regularly appears in the ECACC technical enquiries box is: "Do you have a cell line that expresses our gene of interest?" Sometimes the answer can be found by a literature search but more often experimental investigation is needed. [Find out more](#)

Cell line profile - SH-SY5Y

Chemicals such as retinoic acid can induce differentiation in SH-SY5Y cells. Under these conditions the cells express cell neurites and adopt a neuron-like phenotype. Both undifferentiated and differentiated SH-SY5Y have been reported to express dopaminergic neuronal markers and muscarinic and nicotinic adrenergic receptors. Differentiated SH-SY5Y may be driven towards an adrenergic phenotype. [Find out more](#)



Are your valuable cell lines safe?

Have you ever worried someone forgot to top up the liquid nitrogen storage tank while on holiday? Don't take that risk by making use of ECACC's safe deposit facility as second site storage backup for your cell lines.

Benefit from:

- a secure facility with restricted access control systems, staffed 24/7
- all cryostorage vessels configured for automatic fill from two independent 10,000L reservoir vessels
- cryostorage vessels are constantly monitored by telemetry alarm systems for nitrogen levels and temperature.
- state-of-the-art barcode driven inventory control systems

access to your material within five business days (within Europe)

[Find out more](#)



Cancer Moonshot Initiative

U.S Vice President Joe Biden is leading the US National Cancer Moonshot Initiative, as announced in Barack Obama's final state of the union address in January 2016, to accelerate knowledge about the causes and development of cancer and help to find new therapies and cures. [Find out more](#)

Meet us at EACR24 in Manchester, UK

Visit our stand (C320) and find out what new resources are available for cancer research:



9 – 12 July 2016 | Manchester, UK

- over 200 iPSc (induced pluripotent cell) lines available derived from both healthy and disease patients, as part of the [EBiSC](#) and [HipSci](#) projects
- release of first two organoid cell lines from pig and mouse as part



ECACC Top Tips : Explain the difference between Passage and Population Doubling numbers

A: The MRC-5 cell line is a Finite cell line. A Finite cell line is one which can only undergo a certain number of Population Doublings before the onset of senescence. The use of Population Doubling rather than Passage numbers provides a much clearer and more accurate 'age' for this type of cell

The information provided in our catalogue entry for the [MRC-5 PD19 cell line](#) states that these cells are capable of approximately 26 further Population Doublings before the start of senescence. [Find out more](#)



Do you tweet? Find us on Twitter [@ECACC](#)



Take a look at ECACC's [YouTube channel](#)