



Public Health  
England



**ECACC**  
European Collection  
of Authenticated  
Cell Cultures

Operated by Public Health England

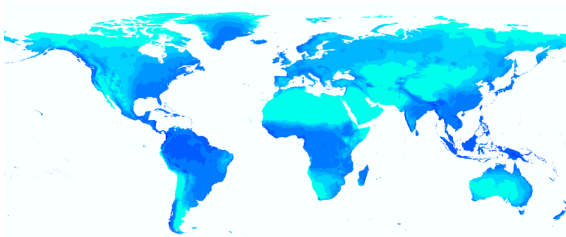
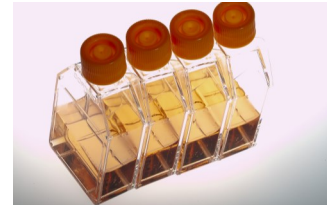
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## ECACC news - October 2016

### ECACC top tips: Culturing cells

Q: Who can help me if I start having difficulties when culturing my cells?

Scroll down for the answer...



### Easy access to ECACC cell lines

ECACC's catalogue is easily accessed through our global network of distributors, including [Sigma-Aldrich](#) (now a part of Merck KGaA, Darmstadt, Germany) (worldwide), [DS Pharma Biomedical](#) (Japan) and [CellBank Australia](#) (Australia and New Zealand).

Benefits of using our distributor network include:



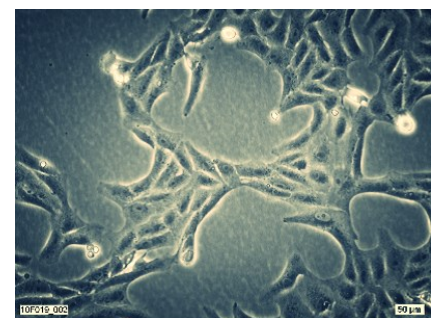
- unrivalled access to the ECACC collection including over 500 unique cell lines (subject to local availability)
- make purchases using your local currency
- dispatch from local distribution centres resulting in reduced shipping costs
- no hassle of obtaining export/import licences
- reliable and quick delivery service (delivery times for rarer cell lines may be longer)
- local technical support supplemented by advice from ECACC scientists
- access to distributor specific discounts on ECACC cell lines

ECACC and our partner distributors deliver quality products and services, allowing you to focus on your research and have confidence in your cell models and data.

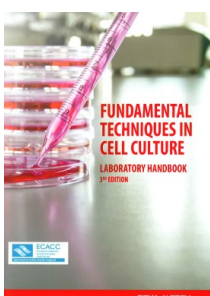
### Cell line profile - VERO

The Vero cell line is continuous and aneuploid. Continuous cell lines of mammalian origin have been an extremely valuable resource for the production of biological pharmaceuticals. Vero is susceptible to infection from a number of viruses such as SV-40, measles virus, arboviruses, Rubella virus, polioviruses, influenza viruses, Zika and simian syncytial viruses. It is also susceptible to bacterial toxins including diphtheria toxin and Shiga-like toxins.

[Find out more](#)



[Find more cell line profiles here](#)



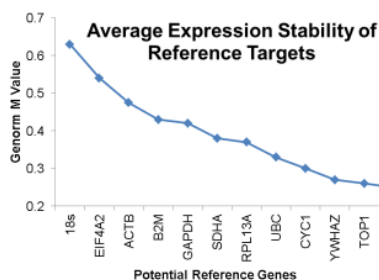
Have you seen the new  
edition of the ECACC lab  
handbook?

[Order your free copy now](#)

Distributor offer from DS Pharma!

[20% off SH-SY5Y, RAW264.7 and C2C12 cell lines](#)

[\(valid until October 15 2016\)](#)



## Correct identification of reference genes in cell lines used in QRT PCR gene expression experiments

QRT PCR is a powerful tool to determine relative gene expression in cells that have been exposed to two or more experimental conditions. RNA extracted from the cells is reverse transcribed to cDNA before QRT-PCR amplification with primers specific to the genes of interest (GOI). Proper use of this method requires a step to normalise results obtained for the target GOIs to the values obtained from reference genes whose expression is assumed to be unaffected by experimental conditions. But how do you know which are the most appropriate reference genes to use in your experiments?

[Find out more](#)

RNA and cDNA (human only) are available as standard formats from [ECACC's General Collection!](#)

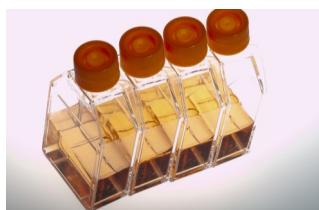
## HipSci collection keeps on growing

HipSci brings together diverse constituents in genomics, proteomics, cell biology and clinical genetics to create a UK national iPSC cell line resource for use in cellular genetic studies.

A total of 238 iPSC lines are available now from HipSci for academic research including normal healthy controls (192), Bardet-Biedl Syndrome (27) and monogenic diabetes (19). More disease lines are to follow at the end of the year. Links to extensive data and current publications are available via [our website](#) and through the [HipSci website](#).



## ECACC top tips : Culturing cells



A: Cell Culture is a complex procedure requiring specific growth conditions and practical expertise. If you are having problems or have any questions about the growth of your cells, help is at hand through your local distributor's Technical Services. They will normally be able to answer your queries directly or if needs be they will refer your inquiry to the Cell Culture specialists at ECACC.

The [technical section of our website](#) contains a lot of helpful information about culturing ECACC cell lines. You can also find the cell culture protocols most widely used in cell culture.

As well as the information available online customers can request a copy of the Culture Collections Laboratory Handbook *Fundamental Techniques in Cell Culture*. This compact laboratory handbook, produced in partnership with one of our distributors Sigma Aldrich (now a part of Merck KGaA, Darmstadt, Germany) provides a wealth of information from the sourcing of cell lines, safety and laboratory design to aspects of cryopreservation and quality control - see link above to order your free copy!

[Check out ECACC's most recent cell line additions](#)



YouTube

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