

# CELL PROCESSING INFORMATION

## EBiSC – European Bank for induced pluripotent Stem Cells



### Customers purchasing cell lines from EBiSC will benefit from:

- Our robust and standardised approach to stem cell banking.
- Adherence to international best practice standards covering all stages from consent and procurement to distribution.
- Our dedicated support to research through provision of a high quality, well characterised, collection of hiPSC lines from a range of genetic backgrounds and reprogramming methods.
- Quality certification for all batches from our standardised process of expansion, cryopreservation and Quality Control at our dedicated central facilities.

### EBiSC ensures the quality of all cell line banks using the following processes:

#### Standardised Cell Culture Conditions:

- All lines are adapted to standardised, antibiotic-free culture protocols to maximise efficiency of use.
- Reproducibility and homogeneity of cell material is assured.
- This ensures consistency across experiments involving multiple cell lines.
- This eases data comparison with data sets produced across multiple sites using the same source material.

#### Core Quality Control Regime:

- Cell line identity: use of STR profiling allows for affordable ID comparisons during use
- Phenotype: expression of gold-standard hPSC and self-renewal markers
- Viability: confirmation gives confidence to users of ease of use of each cell line
- Karyology: Genome health of each cell line recorded and communicated at purchase
- Microbiology: Every batch screened for bacteria, fungi, Mycoplasma and selected human viral pathogens
- Additional characterisation data may include:
  - Pluripotent potential through spontaneous differentiation
  - Directed differentiation to somatic cell types
  - SNP array data
  - Characterisation of genetic lesions
  - Sequencing data

Batch specific Quality Control data is provided on a Certificate of Analysis supplied at cell line receipt. Additional data sets are available in the **EBiSC Cell Line Catalogue** at <http://cells.ebisc.org>.

Further information regarding Quality Control of cell lines provided by EBiSC can be found in the **Quality Control Summary** also available on <http://cells.ebisc.org>.

Access the EBiSC Cell Line Catalogue at <https://cells.ebisc.org>

More information at [www.ebisc.eu](http://www.ebisc.eu)