

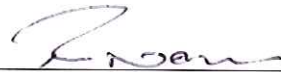
### Certificate of Analysis for HipSci iPSC


|   |  |                                       |             |
|---|--|---------------------------------------|-------------|
| <b>Cell Line Name</b>                   | HPSI0713i-cicb_2   | <b>Culture and Passaging Methods.</b> | FF*         |
| <b>Biosample ID</b>                     | SAMEA2398319   | <b>Catalogue No.</b>                  | 77650104    |
| <b>Reprogramming Method</b>             | CytoTune® 1  | <b>Lot.</b>                           | 22.9.14     |
| <b>Disease Association</b>              | Normal   | <b>Donor Cell Material</b>            | Skin tissue |
| <b>Gender</b>                           | Male   | <b>Passage No.</b>                    | p39         |
| <b>Associated Data and Publications</b> | <a href="http://www.hipsci.org/lines/#/lines">http://www.hipsci.org/lines/#/lines</a><br><a href="http://www.ebi.ac.uk/biosamples/browse_samples.html?keywords=hipsci">http://www.ebi.ac.uk/biosamples/browse_samples.html?keywords=hipsci</a> |                                       |             |

The following standard testing criteria have been determined within CGaP, prior to release of this product:

| Test                               | Assay   | Result  |
|------------------------------------|---|---|
| Confirmed Sterility                | PCR for Mycoplasma                                      | Pass  |
| Cell Line Identity                 | Fluidigm  | Pass  |
| Viability Post-Thaw                | Growth to confluence post-thaw                          | Pass  |
| Morphology                         | Continuous visual assessment of iPSC colony morphology. | Pass  |
| Stem Cell Marker Expression        | Pluri test  | Pass<br><a href="http://www.hipsci.org/lines/#/lines/HPSI0713i-cicb_2">http://www.hipsci.org/lines/#/lines/HPSI0713i-cicb_2</a> |
| Clearance of Reprogramming Factors | rtPCR analysis  | Pass  |

\*These Cell lines were cultured in media containing Pen/Strep.

Acceptable for release: Signed  Date 23/12/15.  
Project Lead

Agreed by: Signed  Date 23.12.15  
Head of Operations