

# Certificate of Analysis (CoA) for induced Pluripotent Stem Cells

*This product is for research only*

|                |          |                    |      |
|----------------|----------|--------------------|------|
| Cell Line Name | YUi011-A | Batch / Lot Number | M001 |
|----------------|----------|--------------------|------|

|                              |                                                                                                                                                       |                                |                                   |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------|
| Reprogramming Method         | Sendai (POU5F1, SOX2, MYC and KLF4)                                                                                                                   |                                |                                   |
| Passage Number               | 19                                                                                                                                                    | Cell number / vial             | 2 x10 <sup>6</sup>                |
| Culture Matrix               | Matrigel™                                                                                                                                             | Culture Medium                 | mTeSR™-1                          |
| O <sub>2</sub> Concentration | 21%                                                                                                                                                   | CO <sub>2</sub> Concentration  | 5%                                |
| Passaging Method             | EDTA                                                                                                                                                  | Additional Culture Information | Rho kinase inhibitor used at thaw |
| Cryopreservation Medium      | Cryostor CS10                                                                                                                                         |                                |                                   |
| Recommendation for thawing   | Recommended thaw into 2 x 60mm plate(s)<br>Refer to cell line user protocols for further guidance at <a href="http://www.EBiSC.org">www.EBiSC.org</a> |                                |                                   |
| Additional Comments          | Slow recovery after thaw, slow growth to confluency                                                                                                   |                                |                                   |

Please see <https://cells.ebisc.org/> for further information on Quality Control and characterisation applied to lines released by EBiSC. The following standard testing criteria have been determined within EBiSC, prior to release of this product:

| Test               | Assay                                                  | Acceptance Criteria                      | Result                                                                                             |
|--------------------|--------------------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------|
| Sterility          | Inoculation for microbiological growth                 | Not Detected                             | Pass                                                                                               |
|                    | Mycoplasma                                             | Not Detected                             | Pass                                                                                               |
|                    | Virology (HBV, HCV, HIV1, HIV2)                        | Not Detected                             | Confirmed<br>Pass by depositor                                                                     |
| Cell Line Identity | STR / Fingerprinting                                   | 85% match to donor<br>Sex match to donor | Allele data recorded and available upon request.<br>First profile recorded,<br>Sex match to donor. |
| Viability          | Visual Assessment                                      | Growth to confluence post-thaw           | Low, slow recovery                                                                                 |
| Phenotype          | Continuous visual assessment of iPSC colony morphology | Recorded                                 | Typical PSC colonies with low differentiation levels                                               |

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| Test                             | Assay                                                      | Acceptance Criteria                                                    | Result                                                                     |
|----------------------------------|------------------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------------|
|                                  | Flow Cytometry                                             | SSEA-4 > 70% +<br>TRA-1-60 > 70% +<br>SSEA-1 < 10% +<br>POU5F1 > 70% + | SSEA-4 → pass<br>TRA-1-60 → pass<br>SSEA-1 → fail (51,7%)<br>POU5F1 → pass |
| <b>Differentiation Potential</b> | Trilineage differentiation and qPCR for trilineage markers | Up-regulation of germ layer markers                                    | Endoderm: Pass<br>Mesoderm: Pass<br>Ectoderm: Pass                         |
| <b>Genomic Stability</b>         | G-Banding<br>(10- 20 successful karyotypes recorded)       | Sex match to donor.                                                    | No chromosomal abnormalities detected                                      |

Additional guidance on storage, safety and usage can be found in the [EBiSC Technical Information](#).

Approved CoA

Signature \_\_\_\_\_

Date \_\_\_\_\_