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

*This product is for research only*

EBiSC
European Bank for induced pluripotent Stem Cells

| Cell Line Name | UKBi011-A-3 | Batch / Lot Number | M001 |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Reprogramming Method | Sendai CytoTune™ 2.0 (OCT3/4, SOX2, cMYC, and KLF4) | | |
| Genetic Modification | Isogenic modification APOE (APOE3/3 homozygous) | | |
| Passage Number | Passage 30 | Cell number / vial | 2x10E6 |
| Culture Matrix | Matrigel™ | Culture Medium | mTeSR™-1 |
| $O_2$ Concentration | 21% | $CO_2$ Concentration | 5% |
| Passaging Method | EDTA | Additional Culture Information | Rho kinase inhibitor used at thaw |
| Cryopreservation Medium | Cryostor CS10 | | |
| Recommendation for thawing | Recommended thaw into 60mm plate(s)<br>Refer to cell line user protocols for further guidance at www.EBiSC.org | | |
| Additional Comments | Typical recovery after thaw, typical 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 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><br>Pass |
| Viability | Visual Assessment | Growth to confluence post-thaw | Acceptable |
| 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 |
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| | Flow Cytometry | SSEA-4 > 70% + TRA-1-60 > 70% + SSEA-1 < 10% + POU5F1 > 70% + | Pass |
| Genomic Stability | G-Banding (10- 20 successful karyotypes recorded) | Sex match to donor. | No chromosomal abnormalities detected |
| Genetic Modification | Sanger sequencing at locus 19q13.32 | Match to reported modification | ApoE3/E3 NM_000041.4:c.388C>T NP_000032.1:p.Arg130Cys |

*Differentiation potential not performed for batch M001.*
*Please refer to historical data from the initial batch (P002):*

| | | | |
|---|---|---|---|
| Differentiation Potential | Spontaneous EB differentiation and qPCR for trilineage markers | Up-regulation of germ layer markers | Endoderm : Pass<br>Mesoderm : Pass<br>Ectoderm : Pass |

Additional guidance on storage, safety and usage can be found in the EBiSC Technical Information.

Approved CoA Signature [signature] Date 05.04.2024