

Certificate of Analysis (CoA) for induced Pluripotent Stem Cells

This product is for research only

ECACC Catalogue No: 66540489

| | | | |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|
| Cell Line Name | UKKi024-B | Batch Number | P001 |
| Donor ID | NP0133 | | |
| Disease Association | Brugada Syndrome | Phenotype of Donor | Affected |
| Tissue of Origin | PBMC | Sex | Male |
| Reprogramming Method | Non-integrating Sendai virus (POU5F1, SOX2, KLF4, MYC) | | |
| Passage Number | Passage 36 | Cell number / vial | 1.56x10 ⁶ |
| Culture Matrix | Vitronectin | Culture Medium | Essential 8™/Essential 8 Flex™ |
| O ₂ Concentration | 20% | CO ₂ Concentration | 5% |
| Passaging Method | EDTA | Additional Culture Information | N/A |
| Cryopreservation Medium | 90% medium / 10% DMSO | | |
| Recommendation for thawing | Recommended thaw into 2 wells of a 6-well plate or per 10cm ² Refer to cell line user protocols for further guidance at www.EBiSC.org | | |
| Additional Comments | Slow recovery after thaw, slow growth to confluency | | |
| Associated Publications | N/A | | |

Please see www.EBiSC.org for further information on Quality Control 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 |
| | qPCR for Mycoplasma | Not Detected | Pass |
| Cell Line Identity | Short Tandem Repeat analysis using PCR | N/A | Allele data recorded and available upon request. Gender match to donor |
| Viability | Visual Assessment | Growth to confluence post-thaw | Low, slow recovery |
| Phenotype | Continuous visual assessment of iPSC colony morphology | Recorded | Typical iPSC colonies with low differentiation levels |

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Additional cell line characteristics have been determined by original reprogramming centres and have not been independently verified by EBiSC. Historical cell line data displayed here is accurate according to data provided by depositors on 22-MAY-2017

| Test | Assay | Result |
|-------------------------------------------|---------------------------------------|-------------------------------------------------------------|
| Phenotype | Flow Cytometry | Positive Expression of CD90, SSEA-1, SSEA-4 and TRA-1-80 |
| | Immunocyto-chemistry | Positive expression of TRA-1-80, POU5F1, Nanog and SSEA-4 |
| Karyotype | SNP Analysis (OmniExpress Exome Chip) | No larger chromosomal aberrations observed |
| Cell Line Identity | PowerPlex 16 STR Genotyping System | Match to donor profile |
| Clearance of Reprogramming Factors | PCR for Sendai virus | Not detected |
| Pluripotency | PCR | Pluripotency markers detected |
| Differentiation Potential | Trilineage differentiation | Differentiation to endoderm, ectoderm and mesoderm detected |
| Sterility | Virology (HBV, HCV, HIV1, HIV2) PCR | Not detected |

| The following guidance can be found in the Instructions for Use | |
|-----------------------------------------------------------------|---------------------------------------|
| Intended use | Expiry Date |
| Product Format | Recommended storage conditions |
| Volume | Hazardous Information |

Approved CoA

Signature 

Date 26 feb 2018



In case of queries, please contact culturecollections.technical@phe.gov.uk. European Collection of Authenticated Cell Cultures (ECACC), Culture Collections, Public Health England, Tel: +44 (0) 1980 612684