

Certificate of Analysis (CoA) for induced Pluripotent Stem Cells

This product is for research only



ECACC Catalogue No: 66540363

| | | | |
|------------------------------|---|--------------------------------|-------------------------|
| Cell Line Name | BIONi020-A | Batch Number | P001 |
| Donor ID | H070815 | | |
| Disease Association | No Disease Association | Phenotype of Donor | Unaffected Control |
| Tissue of Origin | Adipose tissue derived mesenchymal stem cell | Sex | Male |
| Reprogramming Method | Non-integrating Episomal (POU5F1, SOX2, MYC, KLF4 and LIN28) | | |
| Passage Number | Passage 14 | Cell number / vial | 1.81 x 10 ⁶ |
| Culture Matrix | Matrigel/Geltrex | Culture Medium | Essential 8™ |
| O ₂ Concentration | 5% | CO ₂ Concentration | 5% |
| Passaging Method | EDTA | Additional Culture Information | Rocki for 24h post thaw |
| Cryopreservation Medium | 40% FBS* / 50% medium / 10% DMSO *Serum of Zone 1 origin | | |
| Recommendation for thawing | Recommended thaw into 1 well 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 | PubMed ID: 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 |



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

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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 11-MAY-2017

| Test | Assay | Result |
|---|---------------------------------|--|
| Sterility | Virology (HBV, HCV, HIV1, HIV2) | Pass |
| Phenotype | Flow Cytometry | TRA-1-81: 90.1%; OCT 4: 88.9%; SOX2: 96.6%; SSEA-1: 0.12%; SSEA-4: 94.6% |
| Karyotype | G-banding | 46, XY, inv(9)(p11q13) |
| Cell Line Identity | STR | Match to donor |
| Clearance of Reprogramming Factors | QPCR for LIN28, SOX2 and OCT-4 | Not Detected |
| Directed Differentiation | Flow Cytometry | Endoderm : Detected Mesoderm : Detected Ectoderm : 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

24 May 2017



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