

Certificate of Analysis (CoA) for induced Pluripotent Stem Cells

This product is for research only



ECACC Catalogue No: 66540370

| | | | |
|------------------------------|---|--------------------------------|-----------------------------------|
| Cell Line Name | BIONI010-C-8 | Batch / Lot Number | M001 |
| Reprogramming Method | Non-integrating episomal vector (POU5F1, SOX2, KLF4, MYC, Lin28 and shP53) | | |
| Genetic Modification | CRISPR/Cas-9 | | |
| Passage Number | 29 | Cell number / vial | 1.2x10 ⁶ |
| Culture Matrix | Matrigel™ | Culture Medium | Essential 8™ |
| O ₂ Concentration | 18% | CO ₂ Concentration | 5% |
| Passaging Method | EDTA | Additional Culture Information | Rho kinase inhibitor used at thaw |
| Cryopreservation Medium | Cryostor® | | |
| Recommendation for thawing | Recommended thaw into 2 wells of a 6-well plate 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 | N/A | Allele data recorded and available upon request. Match to donor |



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

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| Test | Assay | Acceptance Criteria | Result |
|----------------------------------|--|--|---|
| Viability | Visual Assessment | Growth to confluence post-thaw | Acceptable |
| Phenotype | Continuous visual assessment of iPSC colony morphology | Recorded | Typical iPSC colonies with low differentiation levels |
| | Flow Cytometry | SSEA-4 > 70% + TRA-1-60 > 70% + SSEA-1 < 10% + POU5F1 > 70% + | Pass |
| Differentiation Potential | Directed differentiation and qPCR for trilineage markers | Up-regulation of germ layer markers | Endoderm: Pass Mesoderm: Pass Ectoderm: Pass |
| Genomic Stability | G-Banding | Sex match to donor. 20 successful karyotypes recorded. | 46, XY |
| Genetic Modification | Sanger sequencing at locus | Match to reported modification | T66M mutation detected |

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

Approved CoA

Signature

A handwritten signature in black ink, appearing to be 'E.H.', is written over a horizontal line.

Date: 05.09.2023



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