

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

*This product is for research only*

ECACC Catalogue No: 66541197

Cell Line Name	CHDIi051-A	Batch Number	M001
Donor ID	MTM#129		
Disease Association	No Disease Association	Phenotype of Donor	Unaffected Control
Tissue of Origin	Fibroblasts	Sex	Female
Reprogramming Method	CytoTune™ 2.0 Sendai		
Passage Number	Passage 10	Cell number / vial	1.25 x 10 <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	N/A
Cryopreservation Medium	Cryostor® CS10		
Recommendation for thawing	Recommended to thaw 20% of vial contents into 1 well of a 6-well plate and 80% of vial contents into a second well of a 6-well plate Refer to cell line user protocols for further guidance at <a href="http://www.EBiSC.org">www.EBiSC.org</a>		
Additional Comments	Typical recovery after thaw, typical growth to confluency		
Associated Publications	PubMed ID: N/A		

Please see [www.EBiSC.org](http://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
<b>Sterility</b>	Inoculation for microbiological growth	Not Detected	Pass
	qPCR for Mycoplasma	Not Detected	Pass
	Virology (HBV, HCV, HIV1, HIV2, HTLV1 & HTLV2)	Not Detected	Pass
<b>Cell Line Identity</b>	Short Tandem Repeat analysis using PCR	N/A	Allele data recorded and available upon request. Profile match to donor fibroblast
<b>Viability</b>	Visual Assessment	Growth to confluence post-thaw	Acceptable

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<b>Phenotype</b>	Continuous visual assessment of iPSC colony morphology	Recorded	Typical iPSC colonies with low differentiation levels
<b>Phenotype</b>	Flow Cytometry	SSEA-4 > 70% TRA-1-60 > 70% SSEA-1 < 10% POU5F1 > 70%	Pass
<b>Differentiation Potential</b>	Directed differentiation and qPCR for trilineage markers	Up-regulation of germ layer markers	Endoderm : Detected Mesoderm : Detected Ectoderm : Detected
<b>Karyotype</b>	G-Banding	Normal karyotype	Diploid female karyotype 46, XX
<b>Clearance of Reprogramming Factors</b>	qPCR for Sendai backbone	Not detected	Not detected

The following guidance can be found in the Instructions for Use

<b>Intended use</b>	<b>Expiry Date</b>
<b>Product Format</b>	<b>Recommended storage conditions</b>
<b>Volume</b>	<b>Hazardous Information</b>

Approved CoA

Signature

*Jane Kirby*

Date

*19 Sep 2019*



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