



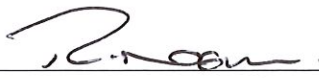
### Certificate of Analysis for HipSci iPSC

<b>Cell Line Name</b>	HPSI0516i-menz_4	<b>Culture and Passaging Methods.</b>	Feeder Free*
<b>Biosample ID</b>	SAMEA103884812	<b>Catalogue No.</b>	77650703
<b>Reprogramming Method</b>	CytoTune 2	<b>Lot.</b>	18.1.17
<b>Disease Association</b>	Battens Disease	<b>Donor Cell Material</b>	Skin tissue
<b>Gender</b>	male	<b>Passage No.</b>	18
<b>Associated Data and Publications</b>	<a href="http://www.hipsci.org/lines/#/lines">http://www.hipsci.org/lines/#/lines</a> <a href="http://www.ebi.ac.uk/biosamples/browse_samples.html?keywords=hipsci">http://www.ebi.ac.uk/biosamples/browse_samples.html?keywords=hipsci</a>		

The following standard testing criteria have been determined within CGaP, prior to release of this product:

Test	Assay	Result
<b>Confirmed Sterility</b>	PCR for Mycoplasma	Pass
<b>Cell Line Identity</b>	Fluidigm	Pass
<b>Viability post-thaw</b>	Growth to confluence post-thaw	Pass
<b>Morphology</b>	Continuous visual assessment of iPSC colony morphology.	Pass
<b>Stem Cell Marker Expression</b>	Pluri test	Pass <a href="http://www.hipsci.org/lines/#/lines/HPSI0516i-menz_4">http://www.hipsci.org/lines/#/lines/HPSI0516i-menz_4</a>
<b>Clearance of Reprogramming Factors</b>	rtPCR analysis	Pass

\*These Cell lines were cultured in media containing Pen/Strep.

Acceptable for release: Signed  Date 06/09/17.  
Project Lead

Agreed by: Signed  Date 8/9/17  
Head of Operations