



◆ **GLKVs13 (iPS cells expressing the second highest HLA in Japan※1)**

<b>Clone ID</b>	GLKVs13	<b>Product</b>	Human iPS cells
<b>Source</b>	Cord blood, Human	<b>Race</b>	Japanese
<b>Passage No.</b>	7	<b>Gender</b>	Male
<b>Lot No.</b>	20170929-02	<b>Manufacture Dates</b>	Sep. 29 <sup>th</sup> , 2017
<b>Culture medium</b>	StemFit AK03N	<b>Substrate</b>	iMatrix-511MG
<b>Culture Method</b>	Feeder-free (※2)		
<b>Plasmids for reprogramming</b>	pCE-hSK, pCE-hUL, pCE-hOCT3/4, pCE-mp53DD, pCXB-EBNA1		
<b>Use and Provision of this cell stock</b>	Please check our web site ; <a href="https://www.cira-foundation.or.jp/e/project/stock.html">https://www.cira-foundation.or.jp/e/project/stock.html</a>		

(※1) Reference; Okita, *et. al.*, Nat Methods. 2011 8(5): 409-412

(※2) Reference; Nakagawa, *et. al.*, Nat Biotechnol. 2008 26(1):101-106

**Test Result**

Test	Method	Result
<b>Sterility</b>	BacT/ALERT	Negative
<b>Mycoplasma</b>	PCR	Negative
<b>Endotoxin</b>	LAL	≤ 5 EU/mL
<b>Virus</b> (HBV, HCV, HIV, HTLV, Parvovirus B19)	PCR	Negative
<b>HLA typing</b> (HLA-A, B, DR)	PCR-SBT	Consistent with the donor cells
<b>STR genotyping</b>	PCR	Consistent with the donor cells
<b>Morphology</b>	Microscope	Consistent with human ES cells
<b>Karyotype</b>	Conventional Giemsa analysis G-banding	46,XY[20]
<b>Plasmid remnants</b>	qPCR	Below the limit of quantification
<b>CNV(※3)</b>	WGS, SNP	No de novo CNVs (>1kbp) were found in COSMIC Cancer Gene Census (ver.85) and Shibata list(※5) .
<b>SNV/Indel(※4)</b>	WGS, WES	No de novo non-synonymous SNVs/Indels were found in COSMIC Cancer Gene Census (ver.85) and Shibata list(※5) .
<b>Undifferentiated markers</b>	Microarray(※7)	<i>POU5F1</i> : 4.3%、 <i>NANOG</i> : 9.3% (Relative expression levels of <i>GAPDH</i> )
	Flow cytometry (※7)	TRA-1-60: 97.8% SSEA4: 99.6% TRA-2-49: 99.5%

<b>Thawed postnatal cells</b>	Counting the number of the cells with a disposable hemocytometer <sup>(※6,7)</sup>	1.45 × 10 <sup>5</sup> cells (Survival rate ;69.3%)
<b>Number of proliferating cells after thawing</b>	Counting the number of the cells with a disposable hemocytometer after culturing for 7 days <sup>(※6,7)</sup> .	15.8 × 10 <sup>5</sup> cells (Number of seeded cells : 1.39 × 10 <sup>5</sup> cells)
<b>Doubling time (h)</b>	Counting the number of the cells <sup>(※6,7)</sup>	P10→P11: 31.6 P11→P12: 26.0 P12→P13: 33.8 P13→P14: 38.1 P14→P15: 32.8

(※3) CNV; Copy Number Variation

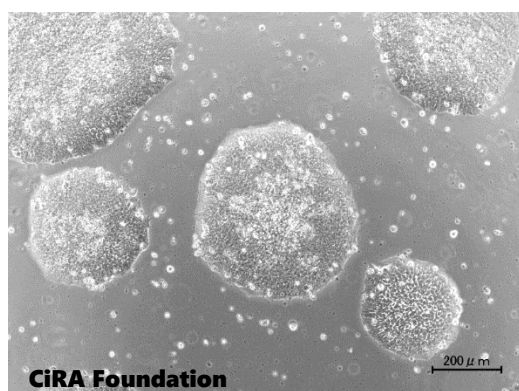
(※4) SNV/Indel; Single nucleotide variants /Insertion Deletion

(※5) The PMDA Science Board “Current Perspective on Evaluation of Tumorigenicity of Cellular- and Tissue-based Products Derived from induced Pluripotent Stem Cells (iPSCs) and iPSCs as Their Starting Materials” (Cellular- and Tissue-based Products Subcommittee, 20 August 2013)

(※6) OLYMPUS Cell Counter model R1

(※7) The result of # 1 out of 3 frozen stocks is shown.

## ■ Image



Please contact us if you have any questions.

[\(\[ips-request@cira-foundation.or.jp\]\(mailto:ips-request@cira-foundation.or.jp\)\)](mailto:ips-request@cira-foundation.or.jp)