



◆ DRXT18s03 (iPS cells expressing the third highest HLA in Japan※1)

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|---|--|--------------------------|-----------------------------|
| Clone ID | DRXT18s03 | Product | Human iPS cells |
| Source | Peripheral Blood, Human | Race | Japanese |
| Passage No. | 9 | Gender | Male |
| Lot No. | 20170708-08 | Manufacture Dates | July 8 th , 2017 |
| Culture medium | StemFit AK03N | Substrate | iMatrix-511MG |
| Culture Method | Feeder-free (※2) | | |
| Plasmids for reprogramming | pCE-hSK, pCE-hUL, pCE-hOCT3/4, pCE-mp53DD, pCXB-EBNA1 | | |
| Use and Provision of this cell stock | Please check our web site ; https://www.cira-foundation.or.jp/e/project/stock.html | | |

(※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 |
|---|---|--|
| Sterility | BacT/ALERT | Negative |
| Mycoplasma | PCR | Negative |
| Endotoxin | LAL | ≤ 5 EU/mL |
| Virus (HBV, HCV, HIV, HTLV, Parvovirus B19) | PCR | Negative |
| HLA typing (HLA-A, B, DR) | PCR-SBT | Consistent with the donor cells |
| STR genotyping | PCR | Consistent with the donor cells |
| Morphology | Microscope | Consistent with human ES cells |
| Karyotype | Conventional Giemsa analysis G-banding | 46,XY[20] |
| Plasmid remnants | qPCR | Below the limit of quantification |
| CNV(※3) | WGS, SNP | No de novo CNVs (>1kbp) were found in COSMIC Cancer Gene Census (ver.83) and Shibata list(※5). |
| SNV/Indel(※4) | WGS, WES | No de novo non-synonymous SNVs/Indels were found in COSMIC Cancer Gene Census (ver.83) and Shibata list(※5). |
| Undifferentiated markers | Microarray(※7) | <i>POU5F1</i> : 5.3%、 <i>NANOG</i> : 5.6% (Relative expression levels of <i>GAPDH</i>) |
| | Flow cytometry (※7) | TRA-1-60: 92.7% SSEA4: 99.4% TRA-2-49: 99.4% |



| | | |
|--|---|---|
| Thawed postnatal cells | Counting the number of the cells (※6, 7) | 1.45×10^5 cells (Survival rate; 93.5%) |
| Number of proliferating cells after thawing | Counting the number of the cells after culturing for 6 days(※6, 7). | 7.1×10^5 cells (Number of seeded cells : 1.39×10^5 cells) |
| Doubling time (h) | Counting the number of the cells (※6, 7) | P12→P13: 33.7 P13→P14: 43.6 P14→P15: 27.4 P15→P16: 33.7 P16→P17: 34.8 |

(※3) CNV; Copy Number Variation

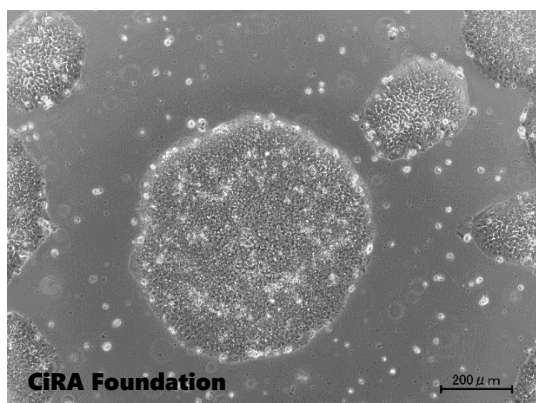
(※4) SNV/Indel; Single nucleotide variants /Insertion Deletion

(※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) ThermoFisher Countess®

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

■ Image



Please contact us if you have any questions.

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