

◆ COVID-19-iPSC-RGMC02#1 (iPS cells derived from convalescent donor)

Clone ID	COVID-19-iPSC-RGMC02#1	Product	Human iPS cells
Source	Peripheral Blood, Human	Race	Japanese
Passage No.	7	Gender	Female
Label Name	20M88	Manufacture Dates	Dec. 7 th , 2020
Culture medium	StemFit AK03N	Substrate	iMatrix-511MG
Culture Method	Feeder-free ^(※2)		
Reprogramming Method	Sendai Virus vector (CytoTune-iPS2.0)		
Use and Provision of this cell stock	Please check our web site ; https://www.cira-foundation.or.jp/e/project/index.html		

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

Test Result

Test	Method	Result
SARS-CoV-2	RT-PCR	Negative
Sterility	BacT/ALERT	Negative
Mycoplasma	PCR	Negative
Endotoxin	LAL	≤ 5 EU/mL
Virus (HBV, HCV, HIV1/2, HTLV, Parvo B19, EBV, CMV)	PCR	Negative
Morphology	Microscope	Consistent with human ES cells
STR genotyping	PCR	Consistent with the donor cells
Karyotype	G-banding	46,XX[20]
Vector remnants	qPCR	Below the limit of quantification
CNV^(※2)	WGS, SNP	No de novo CNVs (>1kbp) were found in COSMIC Cancer Gene Census (ver.88) and Shibata list ^(※4) .
SNV/Indel^(※3)	WGS	De-novo non-synonymous SNVs/Indels were found in COSMIC Cancer Gene Census (ver.88) and Shibata list(MN1) ^(※4) .
Undifferentiated markers	Flow cytometry	TRA-1-60: 92.7 % SSEA4: 99.9 % TRA-2-49: 99.8 % Oct3/4: 99.3 %
Thawed postnatal cells	Counting the number of the cells ^(※5)	3.34 × 10 ⁵ cells (Survival rate ; 74.5 %)

Number of proliferating cells after thawing	Counting the number of the cells after culturing for 6 days ^(※5) .	24.0 × 10 ⁵ cells (Number of seeded cells : 1.5 × 10 ⁵ cells)
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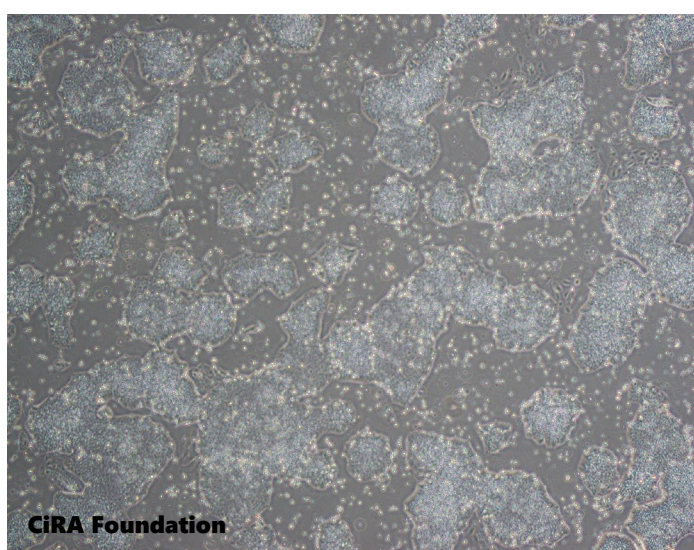
(※2) CNV; Copy Number Variation

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

(※4) 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)

(※5) ThermoFisher Countess II®

■ Image



Please contact us if you have any questions.

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