



S I R W I L L I A M
DUNN SCHOOL
O F P A T H O L O G Y

Certificate of analysis

DRICUi019-A

Operator: SH Ellwood Date: 28/06/2022

Supervisor: SA Cowley Date: 02/08/2023

Signature: *SA Cowley*

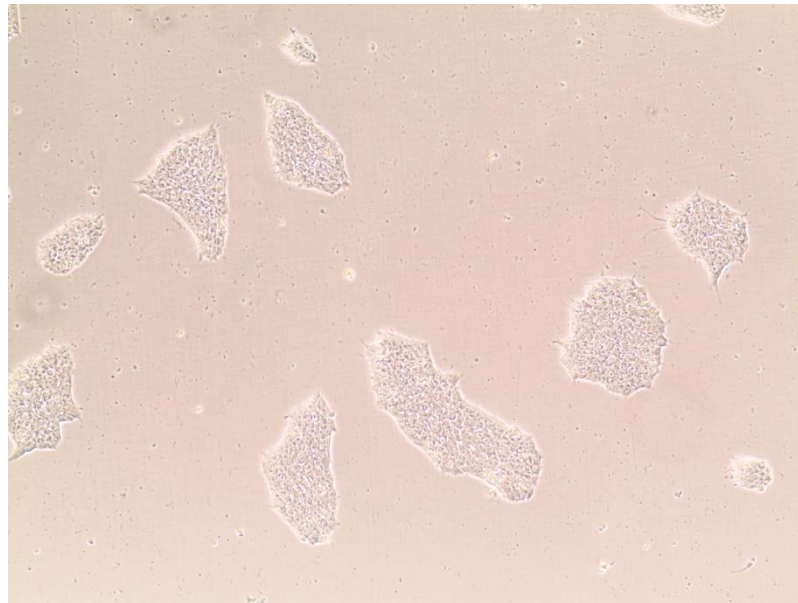
Source of cells and reprogramming information

- NE37A1002a T cells from Cardiff 16/12/2021
- Reprogrammed at UOXF AKA IPMAR21
- Reprogrammed on 04/2022 SC
- Reprogramming system Cytotune v2
- Clone DRICUi019-A = IPMAR21A3
- Banked at p14 11/2022 SE

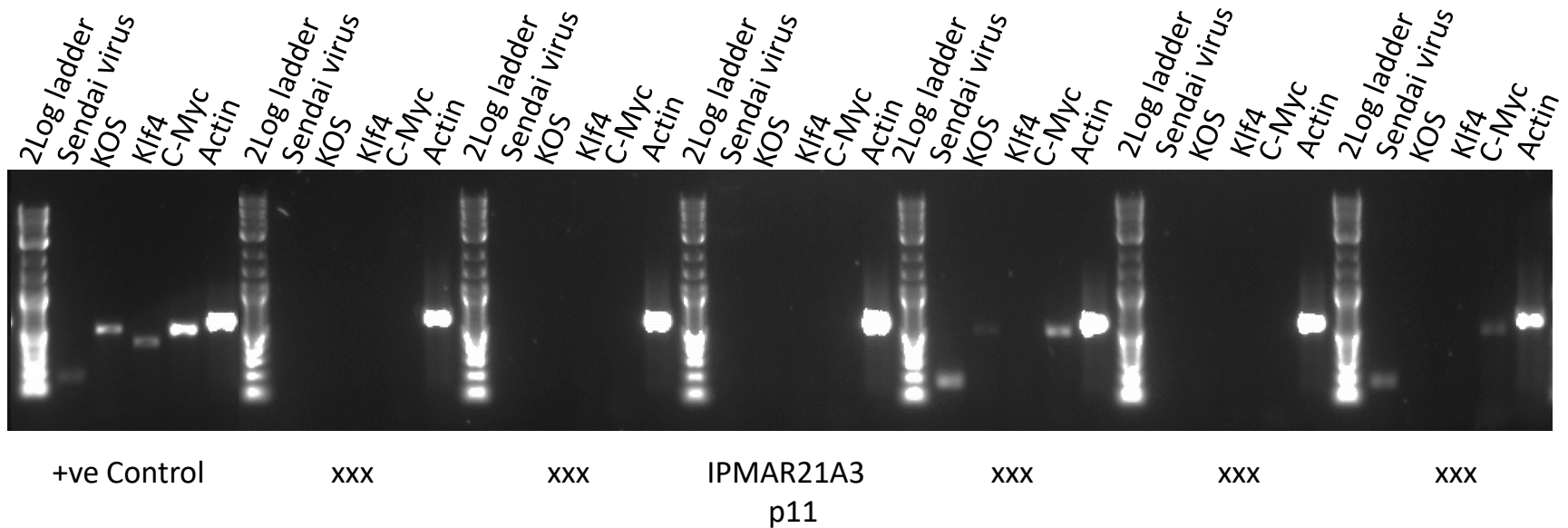
Viability post-thaw and Morphology according to JMSCFSOP19 passage 15

- Vial cell count immediately post-thaw 1.6×10^6
- Viability immediately post-thaw 79.2%
- Photo at day 3 post-thaw (scale bar = $100\mu\text{m}$):

Day 3 post-thaw, 20% plated to 1w.6wp



Sendai Cytotune 2 clearance: according to Cytotune manual Virus undetectable at passage 11



Product sizes: SeV 181bp; KOS 528bp; SeV-Klf 410bp; SeV-Myc 532bp; Actin 623bp

Sterility:

Mycoplasma Test: According to MycoAlert Lonza LT07-318 undetectable at passage 15.

Visual inspection of thawed cells cultured without antibiotic/antimycotic for 4 days:
no evidence of bacteria, yeast or fungus.

Sample	Clone	Passage number	Initial	Reading 1	Reading 2	Ratio/Status
+ve control				5.25	61.96	11.80
-ve control				6.158	0.414	0.07
	IPMAR21A3 DRICUi019-A	p15	SE	2.097	0.91	0.43

Results mean:

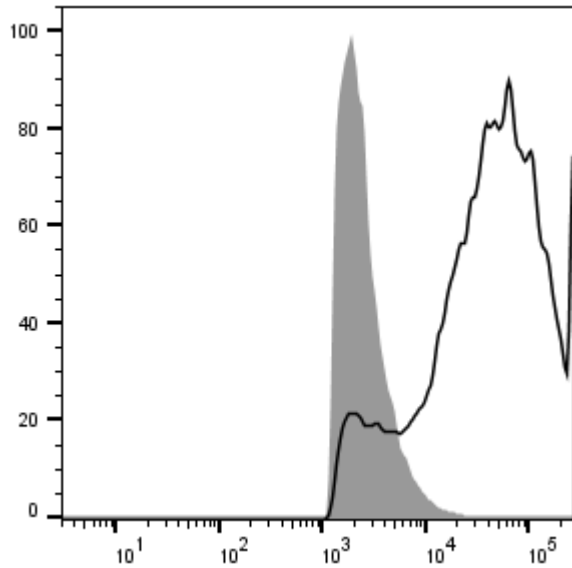
Ratio **0 - 0.999** negative for mycoplasma

Ratio **1 – 1.3** Borderline Result (retest required)

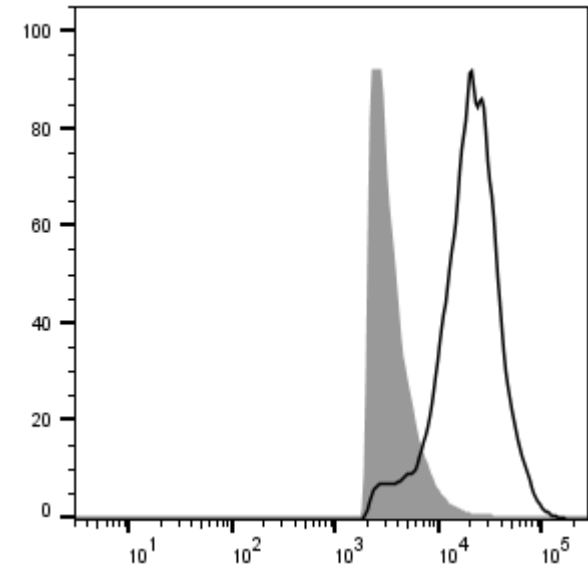
Ratio above **1.3** positive for mycoplasma

Flow cytometric analysis according to JMSCFSOP05 passage 15

DRICUi019 Tra-1-60 78.4%



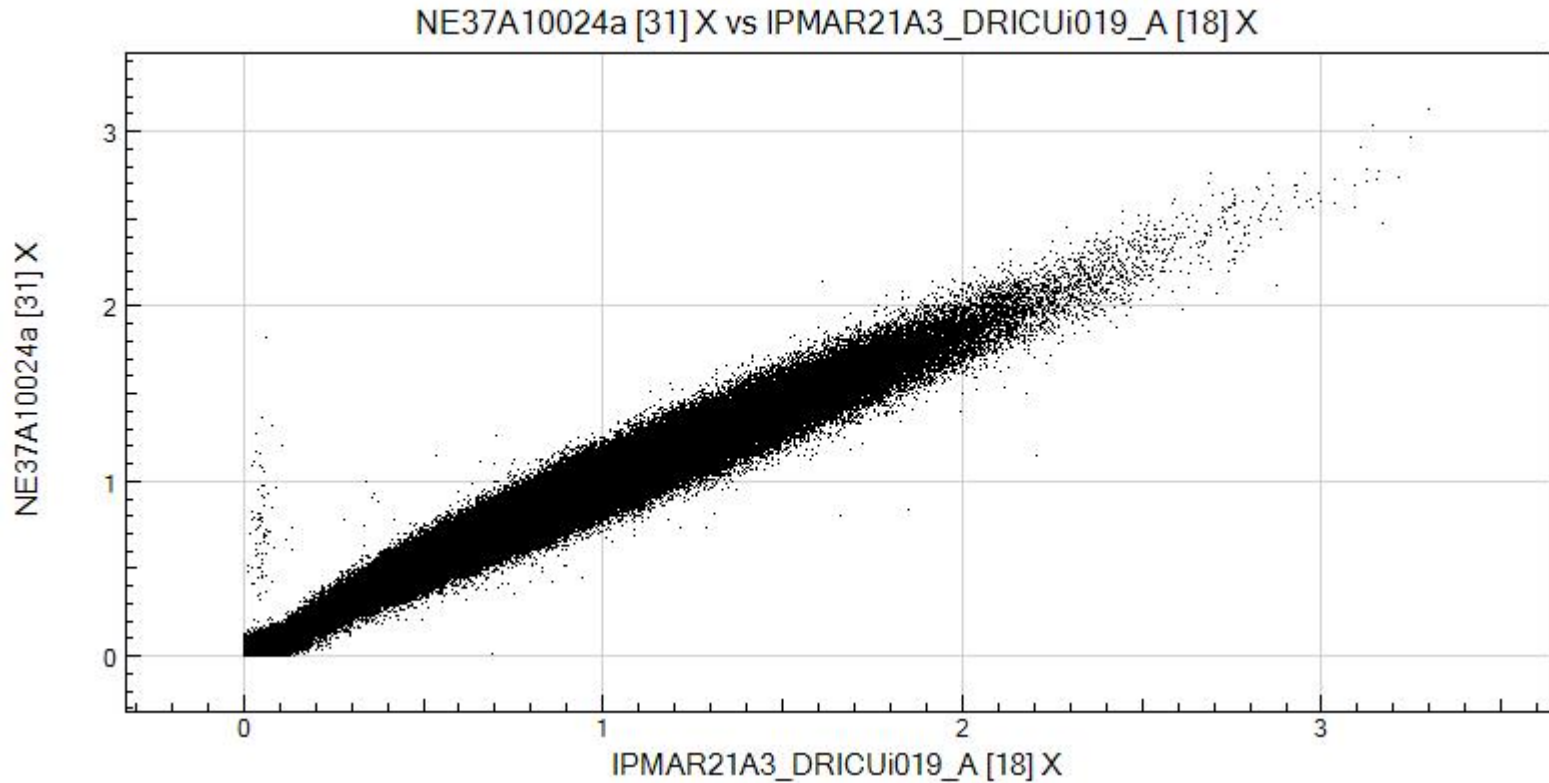
DRICUi019 Nanog 71.4%



Illumina GSA SNP analysis according to JMSCFSOP16

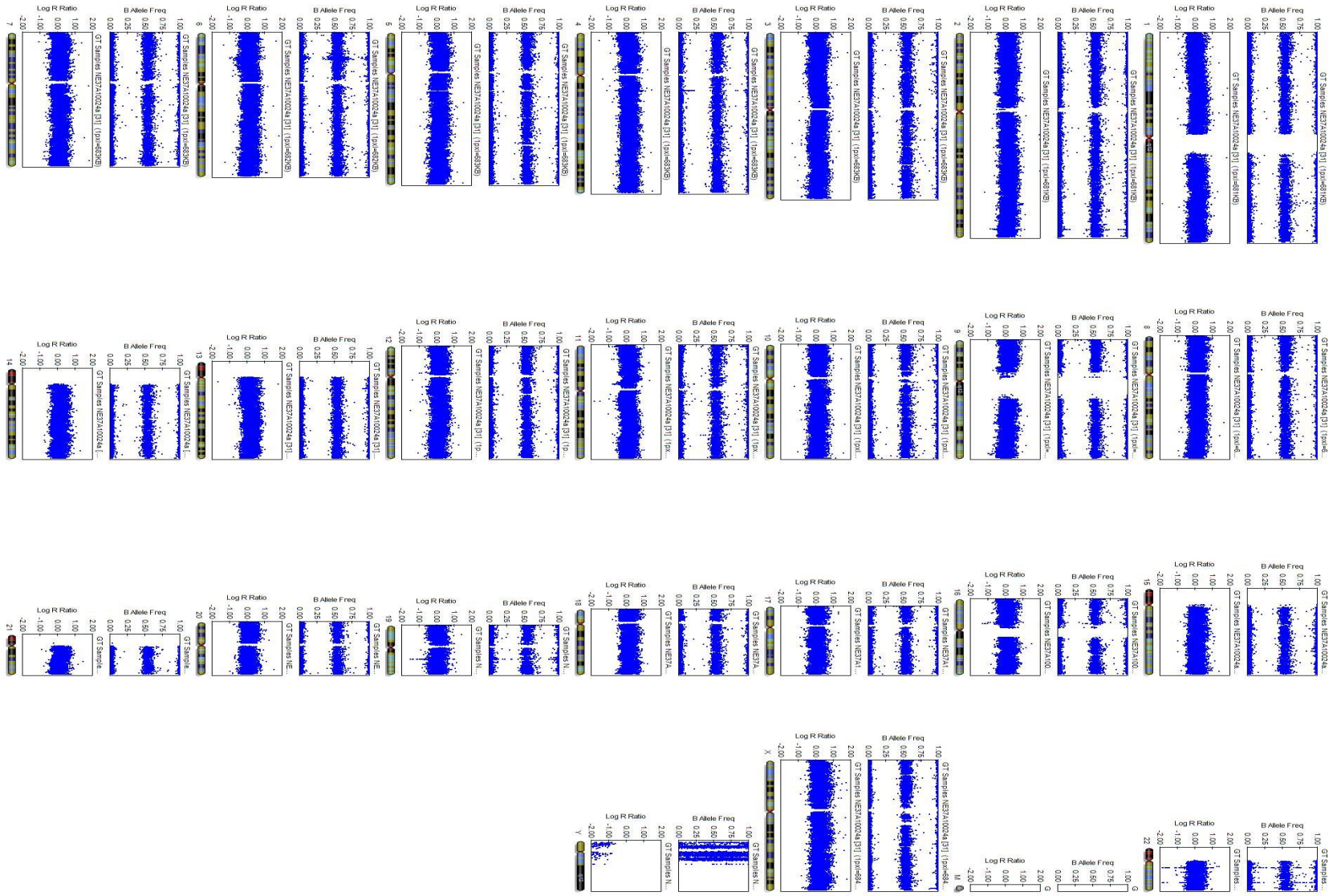
- Passage 14
- Identity to parent PBMC confirmed
- Karyotype abnormalities:
 - No gross abnormalities detected vs PBMC

Alignment of NE37A1002a PBMC SNPs with DRICUi019-A



Regression
Coefficient R^2 :
0.9842

Karyogram NE37A1002a PBMC



Karyogram DRICUi019-A

