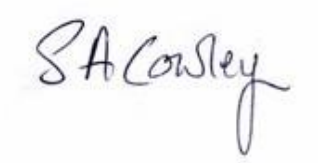
Certificate of analysis

SFC029-03-08

Operator: Jane Vowles Date: 13/01/15

Supervisor: Sally Cowley Date: 04.09.2015

Signature:



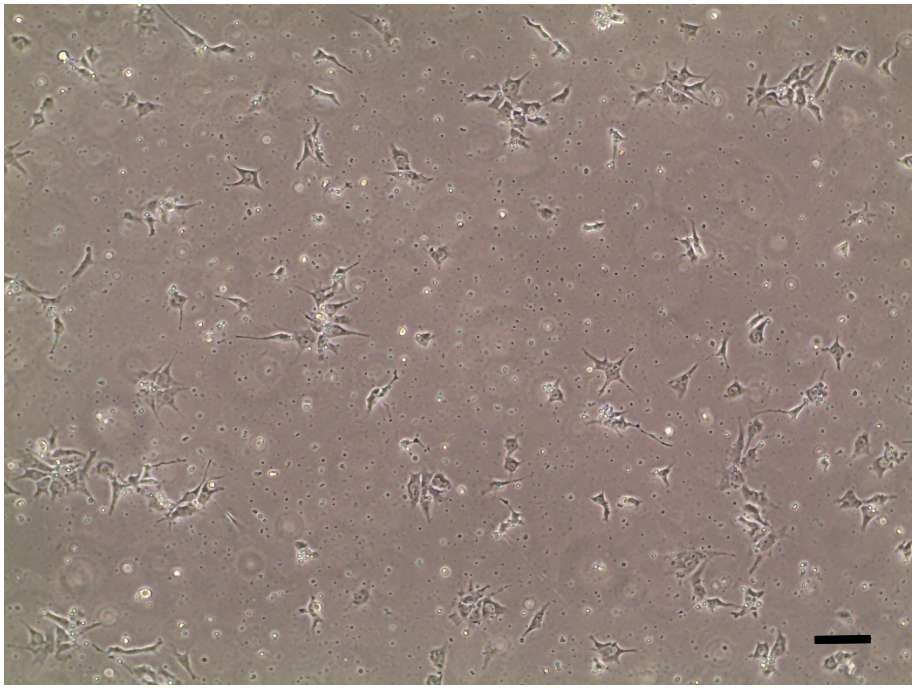
Source of fibroblasts and reprogramming information

- SF029 from Lubeck
- Reprogrammed at UOXF JMSCF
- Reprogrammed on 05/06/14 at passage 3
- Cytotune v1 WP3 SOP10

Viability post-thaw and Morphology according to SOP19 passage 21

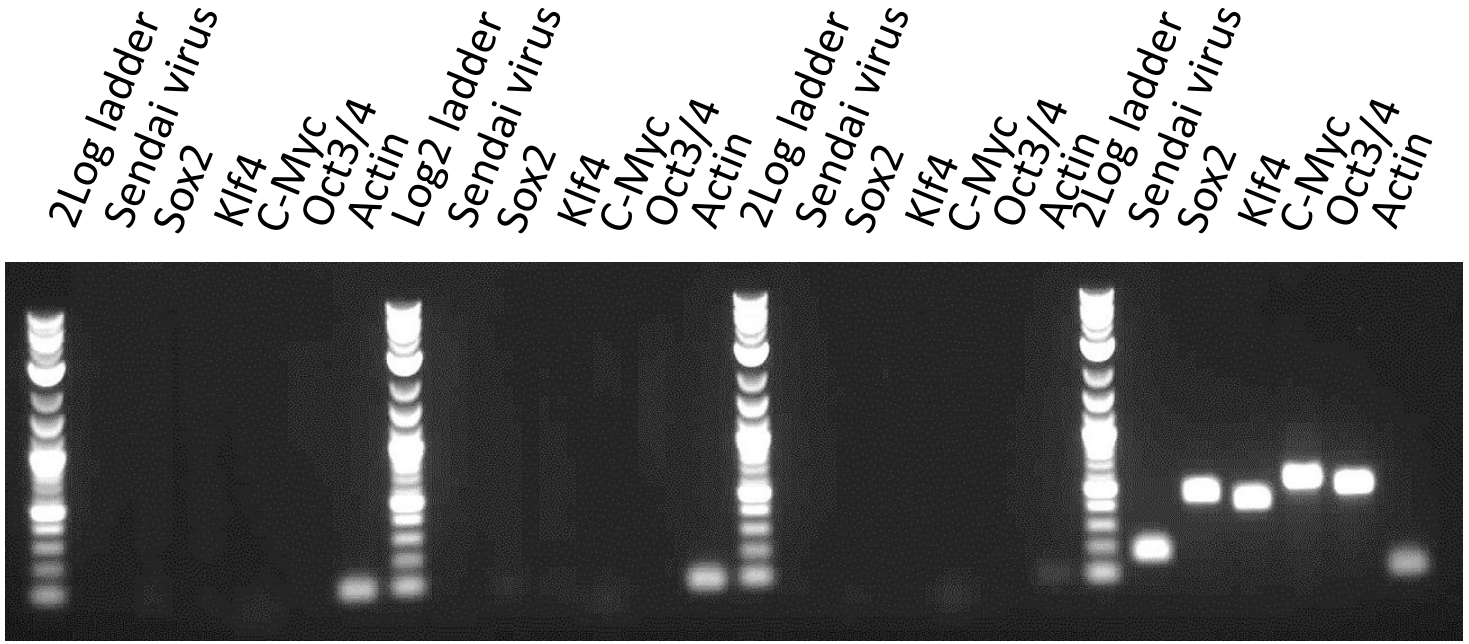
recommend thawing to small format well

- Cell count immediately post-thaw 1.6×10^6
- Viability immediately post-thaw 79%
- Photo at 24h post-thaw (scale bar = 100µm):



Sendai clearance: according to WP3 SOP15 undetectable at passage 21

actin faint, but clearly visible by eye



SFC838-03-02 SFC838-03-01 **SFC029-03-08** + control

Product sizes: SeV 181bp; SeV-Sox 451bp; SeV-Klf 410bp; SeV-Myc 532bp; SeV-Oct 483bp; Actin 92bp

Mycoplasma Test:
According to MycoAlert Lonza LT07-318 undetectable at passage 21

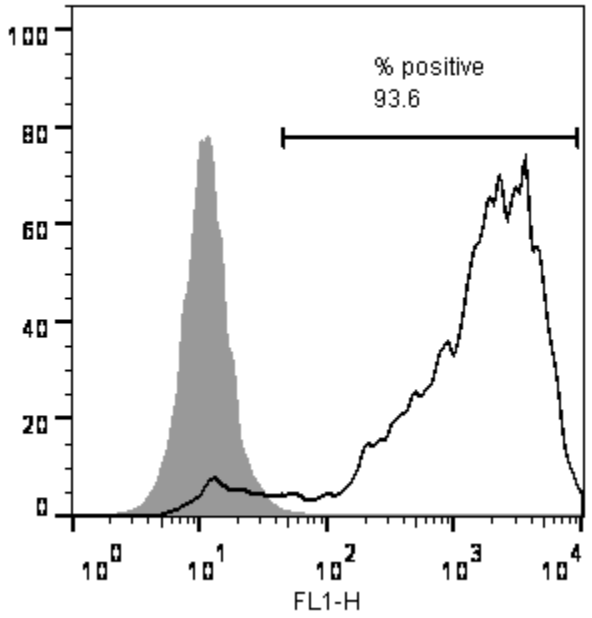
Sample	Passage	Initials	Reading 1	Reading 2	Ratio / Status
+ve Control			5.627	156.59	**27.83**
-ve Control			7.262	0.671	**0.092**
SFC 029-03-08	p21	CB	2.030	0.798	**0.393**

Results mean
Ratio **0 - 0.999** negative for mycoplasma
Ratio **1 – 1.3** Borderline Result (retest required)
Ratio above **1.3** positive for mycoplasma

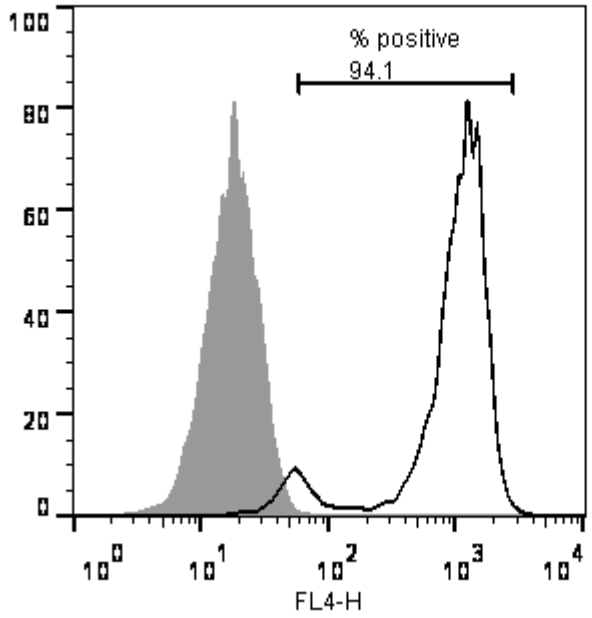
Flow cytometric analysis according to WP3 SOP 20 and 21 passage 21

some differentiation evident – recommend careful clean-up upon thawing

Tra-1-60:



NANOG:



SNP analysis
according to WP3 SOP Preparation of DNA and RNA samples for Illumina arrays

- Passage 21
- Identity to parent fibroblasts confirmed
- Karyotype abnormalities: none detected
- For details and raw data see StemDB