



# Sample Report

## Embryoid Body (EB) Pluripotency Analysis

### Customer Information

<b>Project Title</b>	Embryoid Body Pluripotency Analysis
<b>Name</b>	
<b>Organization</b>	
<b>Email</b>	
<b>Report Date</b>	

### Summary

Service Details	
<b>Cell Type</b>	Human iPS cells
<b>Cell Line</b>	See table 1
<b>Culture Conditions</b>	Matrigel + SFF Medium (Applied StemCell, #ASM-5010)
<b>Histology</b>	<ul style="list-style-type: none"> <li>10% Formalin fixed over night</li> <li>Embedded in paraffin, cut into 5-<math>\mu</math>m serial sections</li> <li>IHC staining using anti-alpha-fetoprotein (AFP; endoderm), anti-smooth muscle actin (SMA; mesoderm) and anti-tubulin III (ectoderm).</li> </ul>
<b>Imaging</b>	Microscope: Nikon Eclipse E1000 with motor macro slide Camera: Nikon Photohead V TP

### Results

- Line #1 stained positive at high or moderate levels for the endoderm (AFP), mesoderm (SMA) and ectoderm (beta-III-tubulin) markers.
- Line #2 stained positive, at high levels for both the endoderm and the ectoderm markers but only at a weak level for the mesoderm marker.
- Line #3 stained positive at high levels for the ectoderm marker, positive at weak levels for the endoderm marker and showed negligible staining for the mesoderm marker.

**Table 1: Summary of IHC Staining**

Cell Line	Passage #	AFP (Endoderm)	SMA (Mesoderm)	beta-III-Tubulin (Ectoderm)
#1	P12	+++	++	+++
#2	P11	+++	+	+++
#3	P9	+	-	+++

Abbreviation: AFP = Alpha Fetoprotein, SMA = Smooth Muscle Actin  
 . +++ = Strong staining, ++ = moderate staining, + = weak staining, - = negligible or no staining

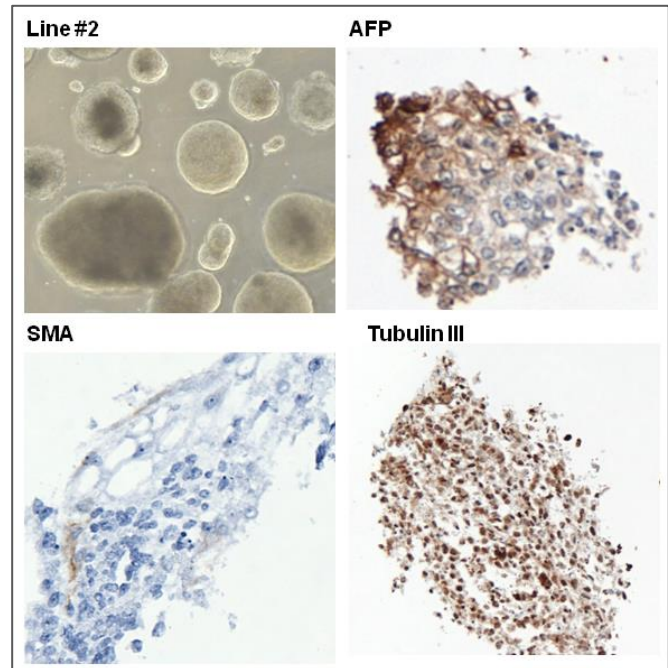
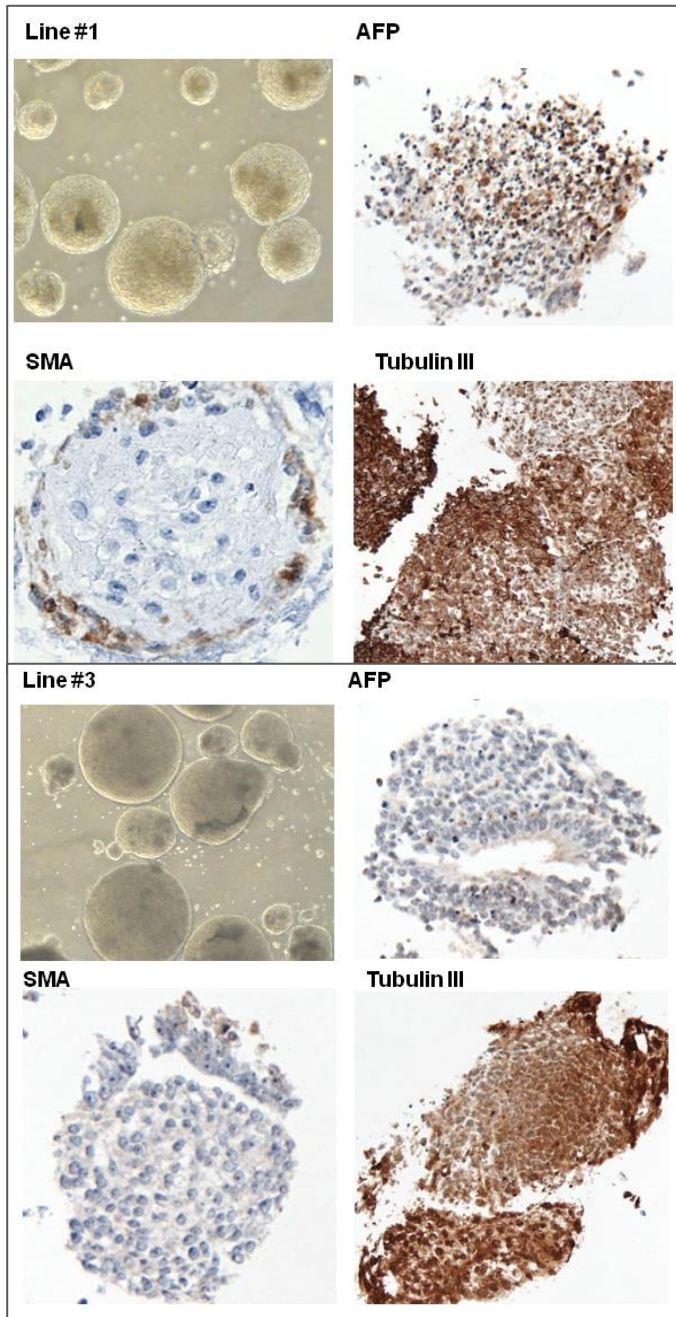
**Applied StemCell, Inc.**

521 Cottonwood Dr. #111, Milpitas, CA 95035  
 Phone: 866-497-4180 (US Toll Free); 408-773-8007 Fax: 408-773-8238  
[info@appliedstemcell.com](mailto:info@appliedstemcell.com) [www.appliedstemcell.com](http://www.appliedstemcell.com)

# Sample Report

## Images

### iPSC Lines #1 - 3



## Conclusion

- Line #1 can be classified as pluripotent.
- Line #2 is borderline pluripotent/multipotent.
- Line #3 can be classified as multipotent.