Sample Information

Sample | XXXXXXXX  
WiCell Sample ID/CTR Number | 03672  
Passage Number at Assessment | P35  
Assessment Dates | 15-Jun-21 & 17-Jun-21

Assay Description

Sample is differentiated through direct differentiation culture using the STEMCELL Technologies Inc. STEMdiff™ Trilineage differentiation kit. Expression of specific lineage markers by flow cytometry is assessed following 5 days of culture for Endoderm and Mesoderm lineages, and following 7 days of culture for the Ectoderm lineage. Results are reported as the percent of total cells with positive expression for both lineage markers simultaneously (Dual Positive Expression).

Results

<table>
<thead>
<tr>
<th>Lineage</th>
<th>Lineage Markers</th>
<th>% Dual Positive Expression</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endoderm</td>
<td>CXCR4, SOX17</td>
<td>85</td>
</tr>
<tr>
<td>Mesoderm</td>
<td>BRACHYURY, NCAM</td>
<td>92</td>
</tr>
<tr>
<td>Ectoderm</td>
<td>NESTIN, PAX6</td>
<td>58</td>
</tr>
</tbody>
</table>

Interpretation

Dual positive marker expression was observed for each lineage assessed, endoderm, mesoderm and ectoderm. Observation of marker expression in all three lineages is consistent with pluripotency of the cell line.

Approvals

Tech #1  
Characterization  

QA Review  
Quality Assurance