

**Supplementary Table S1. Number of Cells Needed for Assays**

Experiment—cell	Cells/well	Cells needed for 384 wells
Geltrex—HUVECs	3,500	1,344,000
Geltrex—iPSC-ECs	7,500	2,880,000
SP-105 hydrogel—HUVECs	6,125	2,352,000
SP-105 hydrogel—iPSC-ECs	3,500	1,344,000
Cytotox—HUVECs	750	288,000
Cytotox—iPSC-ECs	750	288,000

EC, endothelial cell; HUVEC, human umbilical vein endothelial cell; iPSC, induced pluripotent stem cell.