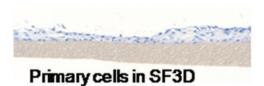
## **Supplementary Data**



**SUPPLEMENTARY FIG. S1.** Serum-free culture does not support cartilage tissue formation by primary chondrocytes. Primary bovine cells grown in three-dimensional (3D) culture on collagen-coated membrane insert failed to accumulate matrix in the SF3D culture system. n=9 independent experiments.