

## General information for Isolation of Endothelial Cells

## **Procedure**

- 1. Tissues were placed inside a culture hood.
- 2. Tissue slices were prepared, washed, and suspended in HBSS.
- 3. Excess HBSS was aspirated, and the tissue slices were minced and transferred to a sterile tube.
- 4. The minced tissues were digested with collagenase I.
- 5. Digested tissues are homogenized and spin down digested tissues.
- 6. Resuspend digested tissues in culture medium.
- 7. Seed digested tissues onto T25 or T75 flask for certain times.
- 8. Collect unattached cells and repeat several times.
- 9. Unattached cells are spinned down.
- 10. Resuspend cell pellets with endothelial growth medium (VEGF/EGF/FGF/Heparin/FBS etc.).
- 11. Expand purified endothelial cells with endothelial growth medium.
- 12. Primary Endothelial Cells are characterized by immunofluorescence staining with antibodies of CD31/PECAM-1, VE-Cadherin, or use of fluorescence-labeled acetylated low-density lipoprotein (Dil-Ac-LDL) uptake, a functional marker for endothelial cells.

THIS IS A PROPRIETARY METHOD.