

Vascular Graft Flow System Setup for Transfer into Incubator, Sterilization and Seeding Goretex

- 1.) Run system overnight outside of incubator.
- 2.) Add an additional chamber (two total).
- 3.) Add water to chambers outside of graft (~55mL).
- 4.) Place system in incubator with only one chamber.
- 5.) Sterilize system.
 - a. In reservoir, place 70% Ethanol solution, run for 4 hours
 - b. Then change reservoir, place PBS and run for 4 hours
 - c. Then change reservoir again and run 10% Abam in PBS for 3 hours. Leave stagnant Abam in tubing overnight.
 - d. The next day, change to PBS in reservoir and run for 3 hours. Refresh reservoir with fresh PBS run for another 3 hours
- 6.) Attach clotted goretex graft to chamber. Use only one chamber.
- 7.) Attach seeded Goretex Graft. Use only one chamber:
 - e. UV Goretex both sides
 - f. Leave it in 10% Abam at 37°C overnight
 - g. Pre coat with gelatin
 - h. Wait 1 hr
 - i. Wash in PBS (dip 1x)
 - j. Then place coated goretex in 15mL tube with 250×10^6 cells/mL EAHY926.
 - k. Every 15mins rotate tube
 - l. Take out Goretex, place in flask with medium in 37°C
- 8.) Run medium in system using only plastic tubing in chamber. After 1 hour refresh with fresh reservoir of medium.
- 9.) Cut off section of seeded Goretex to do BBZ staining. Use a second section for SEM imaging.
- 10.) Using the rest of the Goretex, attach to chamber and fill chamber with medium. Run for 30 mins and then fix.
- 11.) Create new Goretex seeded grafts and run separately for 1 hour, 3 hours and 5 hours and then fix.