

Materials List for

"Avatar", a Modified *Ex vivo* Work Loop Experiments Using *In vivo* Strain and Activation

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jove.com/video/65610

Materials

| Name | Company | Catalog Number | Comments |
|--|--------------------|----------------------|-----------------------------------|
| Braided Non-Absorbable Silk Suture 4-0 | Mersilk | 734H | |
| Calcium Chloride Dihydrate (CaCl ₂) | Sigma-Aldrich | 1086436 | Krebs-Henseleit solution |
| Dextrose | Sigma-Aldrich | D9434 | Krebs-Henseleit solution |
| HEPES | Sigma-Aldrich | PHR1428 | Krebs-Henseleit solution |
| Hydrochloric Acid (HCl) | Sigma-Aldrich | 1.37055 | Krebs-Henseleit solution |
| LabView Data Collection | Lab-View | | |
| Magnesium Sulfate (MgSO ₄) | Sigma-Aldrich | M7506 | Krebs-Henseleit solution |
| Potassium Chloride (KCl) | Sigma-Aldrich | P3911 | Krebs-Henseleit solution |
| Potassium Phosphate Monobasic (KH ₂ PO ₄) | Sigma-Aldrich | 5.43841 | Krebs-Henseleit solution |
| S88 Stimulator | Grass | M643H05 | Available for purchase on Ebay |
| Series 300B Lever System | Aurora | 1200A | includes water-jacket tissue bath |
| Sodium Bicarbonate (NaHCO ₃) | Sigma-Aldrich | S5761 | Krebs-Henseleit solution |
| Sodium Chloride (NaCl) | Sigma-Aldrich | S9888 | Krebs-Henseleit solution |
| Sodium Hydroxide (NaOH) | Sigma-Aldrich | S5881 | Krebs-Henseleit solution |
| Wild Type Mice | Jackson Laboratory | B6C3Fe a/a Ttn mdm/J | |