

Materials List for

An Assay to Assess Phagocytosis and Oxidative Burst Activity In Granulocytes and Monocytes

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URL: <https://www.jove.com/video/21897>
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Materials

| Name | Company | Catalog Number | Comments |
|--|-------------------|----------------|---|
| 12 x 75 mm tubes, with cap | VWR | 20170-579 | You will need 2 tubes per sample ("H" and "F") plus 3 tubes per batch (for assay controls; "F", "H", and "Blood only"). |
| PBS (10X), pH 7.4 | Life Technologies | 70011-044 | |
| Bottle top 0.2 µm cellulose acetate filter (500 ml capacity) | Fisher Scientific | 09-741-07 | |
| Glucose, powder | Life Technologies | 15023-021 | |
| Citric acid (anhydrous, cell culture tested, plant cell culture tested) | Sigma-Aldrich | C2404-100G | |
| Sodium citrate tribasic dihydrate | Sigma-Aldrich | S4641-25G | |
| Dihydroethidium (Hydroethidine) (HE) | Life Technologies | D11347 | |
| Dimethyl sulfoxide (DMSO) Anhydrous | Life Technologies | D12345 | |
| Staphylococcus aureus (Wood strain without protein A) BioParticles, fluorescein conjugate (FITC) | Life Technologies | S2851 | |
| Staphylococcus aureus (Wood strain without protein A) BioParticles, unlabeled | Life Technologies | S-2859 | |
| Trypan Blue Solution, 0.4% | Life Technologies | 15250-061 | |
| 4.0 mL vacutainer containing 7.2 mg K2EDTA, spray-dried | VWR | BD367861 | You will need 1 K2 EDTA blood collection tube per sample. |
| 4.0 mL vacutainer containing 68 USP units Lithium Heparin, spray-coated | VWR | BD367884 | You will need 1 Lithium Heparin blood collection tube per sample. |
| COULTER Ac-T 5diff CP | Beckman Coulter | 6605705 | i.e., hematology analyzer |
| COULTER Ac-T 5diff Rinse | Beckman Coulter | 8547167 | |
| COULTER Ac-T 5diff Fix | Beckman Coulter | 8547171 | |
| COULTER Ac-T 5diff WBC Lyse | Beckman Coulter | 8547170 | |
| COULTER Ac-T 5diff Hgb Lyse | Beckman Coulter | 8547168 | |
| COULTER Ac-T 5diff Cal Calibrator | Beckman Coulter | 7547175 | |
| COULTER Ac-T 5diff Control Plus | Beckman Coulter | 7547198 | |
| AcT 5diff Diluent | Beckman Coulter | 8547169 | |
| 200 µL extended-length pipette tips | VWR | 37001-526 | |
| Insulated ice pan | VWR | 89198-980 | For ice water bath. |
| Open metal tube rack | VWR | 60916-702 | |
| Fetal Bovine Serum | Life Technologies | 26140-111 | |

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|---------------------------|-----------------|---------|---|
| TQ-Prep Workstation | Beckman Coulter | 6605429 | i.e., automated cell lyse preparation workstation |
| ImmunoPrep Reagent System | Beckman Coulter | 7546999 | i.e., RBC lyse/WBC fix reagent system |
| COULTER CLENZ | Beckman Coulter | 8546929 | |