

Materials List for:

# Adaptation of Semiautomated Circulating Tumor Cell (CTC) Assays for Clinical and Preclinical Research Applications

Lori E. Lowes<sup>1,2</sup>, Benjamin D. Hedley<sup>3</sup>, Michael Keeney<sup>3,4</sup>, Alison L. Allan<sup>1,2,4,5</sup>

<sup>1</sup>London Regional Cancer Program, London Health Sciences Centre

<sup>2</sup>Department of Anatomy & Cell Biology, Schulich School of Medicine and Dentistry, Western University

<sup>3</sup>Special Hematology/Flow Cytometry, London Health Sciences Centre

<sup>4</sup>Lawson Health Research Institute

<sup>5</sup>Department of Oncology, Western University

Correspondence to: Alison L. Allan at [alison.allan@lhsc.on.ca](mailto:alison.allan@lhsc.on.ca)

URL: <https://www.jove.com/video/51248>

DOI: [doi:10.3791/51248](https://doi.org/10.3791/51248)

## Materials

| Name                                    | Company        | Catalog Number                       | Comments                                      |
|-----------------------------------------|----------------|--------------------------------------|-----------------------------------------------|
| 0.5 M EDTA                              |                |                                      |                                               |
| Anti-human CD44-FITC                    | BD Pharmigen   | 555478                               |                                               |
| Anti-human CD44-PE                      | BD Pharmigen   | 555479                               |                                               |
| Anti-human HLA-Alexa Fluor 488          | BioLegend      | 311415                               |                                               |
| Anti-mouse CD45-APC                     | eBioscience    | 17-0451-82                           |                                               |
| Bond Primary Antibody Diluent           | Leica          | AR9352                               |                                               |
| CellSave Preservative Tubes             | Veridex        | 952820 (20 pack) 79100005 (100 pack) |                                               |
| CellSearch CTC Control Kit              | Veridex        | 7900003                              |                                               |
| CellSearch CTC Kit                      | Veridex        | 7900001                              |                                               |
| CellSearch CXC Control Kit              | Veridex        | 7900018RUO                           |                                               |
| CellSearch CXC Kit                      | Veridex        | 7900017RUO                           |                                               |
| Instrument Buffer                       | Veridex        | 7901003                              |                                               |
| Streck Cell Preservative (aka CytoChex) | Streck         | 213350                               |                                               |
| 1 ml Syringe                            |                |                                      |                                               |
| 10 ml Serological pipette               |                |                                      |                                               |
| 1,000 µl Pipette                        |                |                                      |                                               |
| 1,000 µl Pipette tips                   |                |                                      |                                               |
| 12 mm x 75 mm Flow tubes                |                |                                      |                                               |
| 200 µl Gel loading tips                 |                |                                      |                                               |
| 200 µl Pipette                          |                |                                      |                                               |
| 22 G Needle                             |                |                                      |                                               |
| 5 3/4 in Disposable Pasteur pipet       | VWR            | 14672-200                            |                                               |
| 5 ml Serological pipette                |                |                                      |                                               |
| Automated pipettor                      |                |                                      |                                               |
| Capillary Blood Collection Tube (EDTA)  | BD Microtainer | 365974                               |                                               |
| CellSearch Analyzer II                  | Veridex        | 9555                                 | Includes magnests and verification cartirdges |
| CellSearch AutoPrep System              | Veridex        | 9541                                 |                                               |
| Centrifuge                              |                |                                      |                                               |

|                   |             |           |  |
|-------------------|-------------|-----------|--|
| MagCollect Magnet | R&D Systems | MAG997    |  |
| Small Latex Bulb  | VWR         | 82024-550 |  |
| Vortex            |             |           |  |