



## Procedure for Storage of Whole Blood Specimens and Slides for Circulating Tumour Cell (CTC) Assessment Using the Wavesense and Veridex Platforms

### 1. MATERIALS AND SUPPLIES

<b>Supplies:</b>
Sodium heparin BD Vacutainer blood tubes
CellSave™ blood tubes
Sample database
Sample worksheet
Gloves
Eye protection
Lab coat
Slide box with dessicant
-20° Freezer
EpiSep HS Slides

### 2. PROCEDURES

#### *PREPARATIONS REQUIRED BEFORE STARTING PROCEDURE*

- Prepare all the necessary documents required for logging blood sample.
- Ensure that protective gear is worn when handling blood sample.

#### **PROTOCOL**

##### Storage of Blood Sample upon arrival to the lab

- Place the blood sample in rack
- Place rack with blood sample in Biological Fume hood
- Store sample at room temp for no more than 24 hours
- Store until ready to use
- Invert both CellSave and sodium heparin tubes 8 times to mix and prevent clotting

##### Storage of Sample After CTC Enrichment using WaveSense Platform

- Place the blood sample now on a slide in a desiccated slide box in a -20° Freezer
- Update the Sample Worksheet with location of storage
- Update the Log Book with location of storage
- Store until ready to use
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##### Storage of Sample After Immunofluorescence Assay

- Place the blood sample now on a slide in a desiccated slide box in a -20° Freezer
- Update the Sample Worksheet with location of storage
- Update the Log Book with location of storage
- Store until ready to use



### Storage of Sample After FISH Assay

- Place the blood sample now on a slide in a desiccated slide box in a -20° Freezer
- Update the Sample Worksheet with location of storage
- Update the Log Book with location of storage
- Store until ready to use

### **References**

- Refer to the 3rd edition of the Public Health Agency of Canada's Laboratory Biosafety Guidelines,
- Refer to the Queen's University's Biohazards Safety Manual published by the Department of Environmental Health and Safety, when handling biohazardous materials such as blood and tumor samples