15.2 System limits

15.2.1 Possible sample interferences

WBC

If any of the following is present, the system may erroneously report a low white blood cell count.

- Leukocyte aggregation

If any of the following is present, the system may erroneously report a high white blood cell count.

- Possibility of PLT clumps
- Cryoprotein
- Cryoglobulin
- Fibrin
- Giant platelets (Platelets > 1,000,000/µL)

RBC

Where the following are present, the system may erroneously report a low red blood cell count.

- Erythrocyte aggregation (Cold agglutinin)
- Microerythrocytes
- Possibility of fragmented RBCs

If any of the following is present, the system may erroneously report a high red blood cell count.

- Leukocytosis (> 100,000/µL)
- Giant platelets (Platelets > 1,000,000/µL)

HGB

If any of the following is present, the system may erroneously report a high hemoglobin concentration.

- Leukocytosis (> 100,000/µL)
- Lipemia
- Abnormal protein

HCT

If any of the following is present, the system may erroneously report a low hematocrit value.

- Erythrocyte aggregation (Cold agglutinin)
- Microerythrocytes
- Possibility of fragmented RBCs

If any of the following is present, the system may erroneously report a high hematocrit value.

- Leukocytosis (> 100,000/μL)
- Severe diabetes
- Uremia
- Spherocytosis

PLT

If any of the following is present, the system may erroneously report a low platelet count.

- Possibility of PLT clumps
- Pseudothrombocytopenia
- Giant platelets

If any of the following is present, the system may erroneously report a high platelet count.

- Microerythrocytes
- Possibility of fragmented RBCs
- Fragmented leukocytes
- Cryoprotein
- Cryoglobulin

RET

If any of the following is present, the system may erroneously report a high reticulocyte count.

- Erythrocyte aggregation (Cold agglutinin)
- Giant platelets
- Possibility of PLT clumps
- Fragmented leukocytes
- Malaria
- Howell-Jolly body