

Lakeland Laboratory

Technical Bulletin

08/14/2021

Urinalysis Instrumentation Testing Update

On August 19, 2021, Spectrum Health Lakeland laboratories will upgrade its urinalysis testing instrumentation.

All sites will utilize Siemens CLINITEK Urine Chemistry Analyzers.

St. Joseph and Niles will utilize the Sysmex UF-5000 Fully Automated Urine Particle Analyzer. This instrument is based on the Fluorescent Flow Cytometry Method and uses a blue semiconductor laser source for in vitro diagnostic use in screening patient populations. Urine particles are automatically categorized by combining the sample with special reagents. The Sysmex UF-5000 analyzes the following parameters in urine samples: RBC, WBC, Epithelial cells, Casts, Bacteria, and flags the presence of the following: Pathologic Casts, Crystals, Sperm, and Yeast like cells.

Key Reporting Changes:

- Bacteria: Negative, Few, Moderate, Many
- Total Casts (all cast types): a quantitative number/lpf will be reported.
- If casts are present, the type of cast will be identified as present.
- If non-squamous epithelial cells (Renal Tubular Epithelial Cells or Transitional Epithelial Cells) are present, they will be identified as present.

EPIC Test ordering and specimen collection instructions will not change.

For additional information or questions please contact Spectrum Health Lakeland Laboratory Client Services:
Call (269) 983-8311 or

1-800-513-9193

Or visit the Lakeland Laboratory website: <https://www.spectrumhealthlakeland.org/medical-services/laboratory-services> then select laboratory test catalog from the drop down menu.