

Laboratory Bulletin

Important News from DCL Medical Laboratories



November 23, 2009

DCL to begin performing automated microscopic urinalysis

DCL Medical Laboratories will soon begin performing automated microscopic urinalysis using the Sysmex® UF-100 Series.

The UF-100 is a fully automated urine cell analyzer that replaces microscopic testing of normal and abnormal urine specimens and flags samples containing certain abnormalities that indicate the need for further assessment.

The UF-100 automatically mixes, aspirates and analyzes formed elements in urine using direct instrument measurements of forward scatter of light (Fsc), fluorescence (FI) and impedance (Imp).

Results are reported in numerical value per high power field, per low power field, or ranked as negative, trace, few, moderate, many. Because of the improved technology of cell counting, microscopic results will no longer be reported in ranges (ie 0-5/ hpf), but most elements will be reported in discrete numbers.

Urinalysis with Microscopic	
UAW	DCL #: 1014
Collection Container:	Complete Urine Kit Send Red/Yellow-top Urinalysis Tube
Storage/Stability:	3 days room temperature
Turnaround Time:	Within 24 hours
Days Run:	Sun - Sat
Preferred amount:	Full Tube
Minimum amount:	Full Tube
Centrifuge required?:	No
Fasting required?:	No
Method:	Flow Cytometry
Reference Range:	See chart below.
Clinical Utility:	<ul style="list-style-type: none"> • Screen for abnormalities of urine • Diagnose and manage renal diseases, urinary tract infection, urinary tract neoplasms and systemic diseases
CPT: 81001	Medicare Reimbursement*: \$4.63

* Per Jan. 2009 Clinical Diagnostic Laboratory Fee Schedule for Indiana.

Formed elements will easily be classified as one of the following formed element types:

WBC	Pathologic Casts	Epithelial Cells	Small Round Cells
RBC	Yeast	Cast	Crystals
Bacteria	Sperm		

Please carefully read over the chart below noting the changes in the reference ranges. If you have any questions, you may contact DCL Client Services at (317) 874-1334 or toll free at (866) 874-1334.

Reference Ranges : Urinalysis with Microscopic (UAW)	
Test	Reference Range
URBC	0-2/hpf
UWBC	0-5/hpf
UEPI	0-1/ lpf male 0-5/ lpf female
UCAST	0-3/ lpf
BACTERIA YEAST TRICHMONAS	Negative
CRYSTALS	None seen / hpf

Questions? Contact DCL Client Services: Phone (317) 874-1334, Toll Free (866) 874-1334, Fax (317) 874-1404