

TEST UPDATE

Platform Changes for Urinalysis Testing

CVPH

Effective 11/09/2023, the CVPH Laboratory will be changing the platform for automated chemical and sediment urinalysis from Arkray Aution 4050 to Sysmex UN-3000. The Sysmex UN3000 platform is composed of three modules: Siemens CLINITEK Novus (chemical), Sysmex UF-5000 (sediment flow cytometer), and Sysmex UD-10 (sediment digital imaging system). Comparisons between the new UN-3000 and the old Arkray Aution 4050 platforms show very good correlations of results both for chemical and sediment analysis.

All UVMHN laboratories will be standardizing the ordering and resulting of urinalysis testing. This standardization includes:

- Updating the naming of the urinalysis tests
- Updating to reporting
- Updating criteria for reflexing the UA to culture
- A new orderable, UA Cascade to Culture

Test Name Updates

Updated Orderable Name	Epic Code	Order LOINC
UA Chemical Only	LAB3695	24356-8
UA Sediment Only	LAB3696	24365-9
UA Chemical & Sediment	LAB348	24356-8
UA Sediment + Reflex to Culture	LAB9896	24365-9
UA Chemical & Sediment + Reflex to Culture	LAB14286	24356-8

Reporting Updates

Component	Normal Result		Abnormal Result	
	Current	New	Current	New
Glucose	Negative	No Change	Any non-negative result	Trace, 1+, 2+, 3+
Bilirubin	Negative	No Change	Small, Moderate, Large	1+, 2+, 3+
Ketones	Negative, Trace	Negative	Anything not negative or trace	Trace, 1+, 2+, 3+
Specific Gravity	1.015-1.025	1.001-1.035	<1.015, >1.035	<1.001, >1.035
Blood	Negative	No Change	Trace, Small, Moderate, Large	Trace, 1+, 2+, 3+
Urobilinogen	Normal, 0.2 mg/dL	0.2, 1.0 mg/dL	2, 3, 4, 6, 8, 12, >12 mg/dL	2.0, 4.0, >=8.0 mg/dL
Nitrite	Negative	No Change	Positive	No Change
Leukocyte Esterase	Negative	No Change	Trace, Small, Moderate, Large	Trace, 1+, 2+, 3+
Protein	Negative, Trace	Negative	Any non-negative result	Trace, 1+, 2+, 3+
pH	5.0-9.0	5.0-8.0	<5.0, >9.0	8.5, >=9.0

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Sediment Reporting:

Component	Normal Result		Abnormal Result	
	Current	New	Current	New
WBC	0-4/hpf	0-3/hpf	5-10, 11-20, >20/hpf	4-9, 10-50, >=50/hpf
Squamous Cells	<5/hpf	None Seen	5-10, 11-20, >20/hpf	Few, Moderate, Many
Bacteria	None Seen	No Change	1+, 2+, 3+, 4+	Few, Moderate, Many
Crystals	Not reported if none seen	No Change	Type and Number as Few, Moderate, Many	Only Type
Hyaline Cast	Not reported if none seen	No Change	<5, 5-10, 10-20, >20/hpf	Only Type
All Other Casts	Not reported if none seen	No Change	Type and Number as Few, Moderate, Many	Only Type

Reflex Criteria Update

Reflex to Culture Criteria	
Current	New
UA Sediment with >=4/hpf WBC present	US Sediment with >=10/hpf WBC present

New UA Cascade to Culture Test:

The new test, UA Cascade to Culture, includes a chemical analysis and, depending on the results, can reflex a sediment analysis. If the sediment contains >=10/hpf WBCs, then a culture will be reflexed.

New Orderable	Epic Code	Order LOINC	CPT Code
UA Cascade to Culture	LAB14587	58077-9	81003

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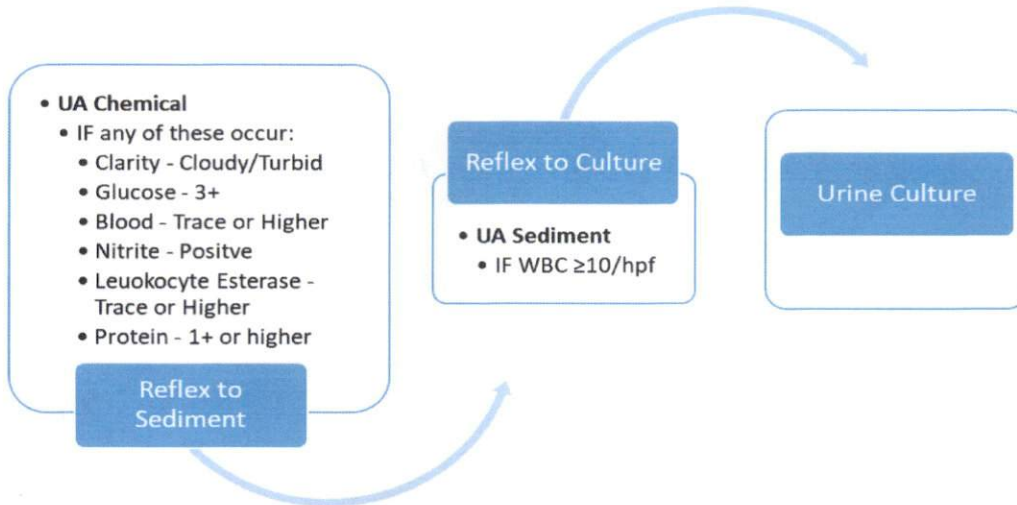
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New UA Cascade to Culture Test cont.



Specimen Requirements					
Container	Specimen	Temperature	Collect/Submit	Min Vol	Stability
Sterile Container	Urine	Refrigerate	12 mL	5 mL	1 day
Collection Information					
Clean catch specimen preferred.					
First morning voided urine preferred.					
Samples greater than 8 hours old may be unreliable.					

The Bacterial Culture, Urine test is also available as a stand-alone orderable and can be ordered directly in specific clinical circumstances (i.e. pregnant women, neutropenic fever, and neonates).

Orderable Name	Epic Code	Order LOINC
Bacterial Culture, Urine	LAB239	630-4

If you have any questions or concerns about these changes, please contact Medical Director of CVPH Laboratory, Dr. Eric Gorman, at (EGorman@cvph.org)

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