



PAML Introduces Automated Urinalysis Testing

New Instrumentation Requires Changes in Ordering, Specimen Requirements, and Reporting

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On February 8, 2005, the central laboratory implemented a new urinalysis analyzer, which uses Flow Cell Digital Imaging for the sediment analysis (urine microscopic). The ordering and specimen requirements for the urinalysis tests have changed. These changes do not affect urinalysis testing done at the PAML patient service centers.

Changes in Urinalysis Testing

The following codes are to be used to order urinalysis tests sent to the central laboratory:

UAMCR Urinalysis, Microscopic Only

UADIP Urinalysis, Dipstick Only

UAXM Urinalysis with Microscopic

Reflex testing (performing a microscopic on a specimen with a positive dipstick) on Routine Urinalysis will no longer be offered.

Changes in Specimen Requirements

Preferred specimen: 10-12 mL of random urine in a leakproof plastic urine container.

Minimum volume: Pediatric patients require 2 mL.

Unacceptable Conditions: Boric acid tubes or specimens that have been at room temperature longer than 2 hours.

Changes in "Culture if Indicated" Ordering

"Culture if Indicated" urine orders: To order a urinalysis with "Culture if Indicated," use the order code, **CULIF**, along with the **UAXM**. This alerts the technologist to assess the dipstick and the microscopic for a possible culture. If a culture is subsequently ordered, it will be billed as appropriate. **CULIF cannot be ordered with UADIP or UAMCR.**

Changes in Urine Culture Specimen Requirements – CURN or CURNNS (no smear)

Preferred specimen: Boric acid tube. Currently, PAML offers glass boric acid tubes. During the next couple of months, these will be replaced with plastic boric acid tubes. A notification will be sent out through the supply department when this change occurs.

Alternate specimen: Sterile leakproof plastic urine container.

Unacceptable conditions: Unpreserved specimens at room temperature longer than 2 hours or refrigerated longer than 12 hours or preserved specimens at room temperature longer than 48 hours.

Provided for the clients of

PATHOLOGY ASSOCIATES MEDICAL LABORATORIES • PACLAB NETWORK LABORATORIES
TRI-CITIES LABORATORY • TREASURE VALLEY LABORATORY • ALPHA MEDICAL LABORATORY

For more information, please contact your local representative.

Quick Facts

- ▶ These urinalysis changes are for specimens being sent into the central laboratory.
- ▶ There will be no changes for urinalysis performed at the PAML patient service centers.
- ▶ New order codes for urinalysis testing include:
 - UAXM** Urinalysis with Microscopic
 - UADIP** Urine Dipstick
 - UAMCR** Urine Microscopic
- ▶ Reflex testing is no longer offered on urinalysis – performing a microscopic on a specimen with a positive dipstick.
- ▶ Boric acid tubes are not acceptable for urinalysis testing.
- ▶ Use boric acid tubes for Urine Cultures only.
- ▶ Order **CULIF** for "Culture if Indicated" only with **UAXM** (Urinalysis With Microscopic).
- ▶ Order **CULIF** with **UAXM** during the same order entry session.

For more information, please
contact Client Services or
see us on the Web at



Test Information

DESCRIPTION URINALYSIS WITH MICROSCOPIC

METHOD Colorimetric / Flow Cell Digital Imaging

ORDER CODES UAXM / UAXM

CPT CODE 81001

SPECIMEN 12-mL aliquot of random urine collection in a leakproof plastic urine container. Protect from light. Store and transport refrigerated.

COMMENTS *Minimum amount:* 10 mL, 2 mL for pediatric patients.
Unacceptable conditions: Boric acid tubes or specimens that have been at room temperature longer than 2 hours.

SCHEDULE Daily and stat

TURNAROUND 24 hours

RANGES **Dipstick**

Color		
Appearance		
Glucose, Urine	Negative	mg/dL
Bilirubin, Urine	Negative	
Ketones, Urine	Negative	mg/dL
Specific Gravity	1.001-1.030	
pH, Urine	5.0-7.5	
Protein, Urine	Negative	mg/dL
Urobilinogen, Urine	LT 2.0	mg/dL
Nitrite, Urine	Negative	
Blood, Urine	Negative	
Leukocyte Esterase	Negative	
Reducing Substances	Negative	mg/dL
Microscopic		
WBC	LT 6	/hpf
RBC	Female LT 6	/hpf
	Male LT 3	
WBC clumps	None seen	/hpf
RBC clumps	None seen	/hpf
Bacteria	None seen	/hpf
Budding yeast	None seen	/hpf
Hyphae yeast	None seen	/hpf
Squamous epithelial cells	Not clinically significant	/lpf
Transitional epithelial cells	None seen	/hpf
Renal epith cells	None seen	/hpf
Oval fat bodies	None seen	/hpf
Fat	None seen	/hpf
Mucus	None seen	/lpf
Sperm	None seen	/hpf
Trichomonas	None seen	/hpf
Hyaline casts	None seen	/lpf
Epith cell casts	None seen	/lpf
WBC casts	None seen	/lpf
RBC casts	None seen	/lpf
Granular casts	None seen	/lpf
Broad casts	None seen	/lpf
Fatty casts	None seen	/lpf
Waxy casts	None seen	/lpf
Triple phosphaste crystals	None seen	/hpf
Calcium oxalate crystals	None seen	/hpf
Calcium phosphate crystals	None seen	/hpf
Calcium carbonate crystals	None seen	/hpf
Uric acid crystals	None seen	/hpf
Leucine crystals	None seen	/lpf
Cystine crystals	None seen	/lpf
Tyrosine crystals	None seen	/lpf
Amorphous crystals	None seen	/hpf
Other		

DESCRIPTION URINALYSIS, DIPSTICK ONLY

METHOD Colorimetric

ORDER CODES UADIP / UADIP

CPT CODE 81003

SPECIMEN 10-mL aliquot of a random urine specimen. Protect from light. Store and transport refrigerated.

COMMENTS *Minimum amount:* 10 mL, 2 mL for pediatric patients.
Unacceptable conditions: Boric acid tubes or specimens that have been at room temperature longer than 2 hours.

SCHEDULE Daily and stat

TURNAROUND 24 hours

RANGES See UAXM **Dipstick** ranges.

DESCRIPTION URINALYSIS, MICROSCOPIC ONLY

METHOD Flow Cell Digital Imaging

ORDER CODE UAMCR / UAMCR

CPT CODE 81015

SPECIMEN 12-mL aliquot of random urine collection in a leakproof plastic urine container. Store and transport refrigerated.

COMMENTS *Minimum amount:* 10 mL, 2 mL for pediatric patients.
Unacceptable conditions: Boric acid tubes or specimens that have been at room temperature longer than 2 hours.

SCHEDULE Daily and stat

TURNAROUND 24 hours

RANGES See UAXM **Microscopic** ranges.

DESCRIPTION CULTURE, URINE COLONY COUNT

METHOD Organism Isolation

ORDER CODES CC.CULT / CURN

CPT CODES 87086, 87205

SPECIMEN Aseptically collect first morning void in sterile leakproof plastic container and transfer to urine boric acid tube. Note collection time and method. Store and transport at room temperature or refrigerated. *Foley Cath*: Aspirate through disinfected tubing with needle/syringe. Do NOT drain from bag. Put in sterile container and transfer to urine boric acid tube. *Male Clean Catch*: Draw foreskin back and hold. Begin voiding and obtain midstream urine in specimen container. *Female Clean Catch*: Separate folds of the vulva and hold. Wipe the opening from front to back with four wipes. Use wipe for one stroke only. Obtain mid-stream urine in specimen container.

COMMENTS *Minimum amount*: 2-3 cc for routine or fungal screen, full first morning void for TB.

Unacceptable conditions: Unpreserved urine at room temperature more than 2 hours or refrigerated more than 12 hours. Preserved specimens at room temperature longer than 48 hours.

Other acceptable specimens: Sterile leakproof plastic container, refrigerated.

Stability: Unpreserved: 2 hours at room temperature, 12 hours refrigerated. Preserved: 48 hours at room temperature.

SCHEDULE Daily

TURNAROUND Final at 48 hours

RANGES Source
Gram Stain
Culture, Urine Negative
Culture, Urine, Status

DESCRIPTION CULTURE, URINE COLONY COUNT (NO SMEAR)

METHOD Organism Isolation

ORDER CODES CURNNS / CURNNS

CPT CODE 87086

SPECIMEN Aseptically collect first morning void in sterile leakproof plastic container and transfer to urine boric acid tube. Note collection time and method. Store and transport at room temperature or refrigerated. *Foley Cath*: Aspirate through disinfected tubing with needle/syringe. Do NOT drain from bag. Put in sterile container and transfer to urine boric acid tube. *Male Clean Catch*: Draw foreskin back and hold. Begin voiding and obtain midstream urine in specimen container. *Female Clean Catch*: Separate folds of the vulva and hold. Wipe the opening from front to back with four wipes. Use wipe for one stroke only. Obtain mid-stream urine in specimen container.

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Stability: Unpreserved: 2 hours at room temperature, 12 hours refrigerated. Preserved: 48 hours at room temperature.

SCHEDULE Daily

TURNAROUND Final at 48 hours

RANGES Source
Culture, Urine Negative
Culture, Urine, Status

DESCRIPTION CULTURE IF INDICATED

ORDER CODE CULIF / CULIF

COMMENTS This order code used only in conjunction with urinalyses performed at the central laboratory. It allows for specimen tracking. For a request of "Urinalysis, culture if indicated," use the code CULIF in conjunction with the code UAXM and order during the same order entry session. Do *not* order CULIF with UADIP or UAMCR.

