

LAB21014 Urinalysis, Routine with Reflex to Urine Culture (RTUAC)

BMC, CRH, LFH, HRK, OCH, FTT, FOX, FXCC

Specimen Type

Clean Catch or Catheterized Urine

Preferred Container

Sterile Urine Collection Container

Minimum Volume to Submit for Testing

5 mL Urine

Storage Requirements

See Causes of Rejection for temperature requirements.

May be refrigerated up to 24 hours

DO NOT USE CHEMICAL PRESERVATIVES

Transportation Needs

Deliver specimen to the laboratory within 1 hour of collection.

If not possible see “Storage Requirements”

Causes for Rejection

Mislabeled or unlabeled specimen

Specimen received in container with chemical preservatives

> 1 hour at room temperature

> 24 hours refrigerated

Quantity insufficient for analysis

Interference by chromogen metabolite from certain antibiotics

Gross Hemolysis

Reference Values

Macroscopic			
Parameter	Population	Units	Reference Range
Color	All populations	None	Colorless, Light Yellow, Yellow, Dark Yellow
Appearance	All populations	None	Clear
Specific Gravity	All populations	None	1.000-1.029
pH	All populations	None	5.0-8.0
Protein	All populations	mg/dL	Negative, 10mg/dL, 20 mg/dL
Glucose	All populations	mg/dL	Negative, 30mg/dL, 50mg/dL
Ketone	All populations	mg/dL	Negative, Trace
Bilirubin	All populations	None	Negative

Blood	All populations	None	Negative, Blood
Urobilinogen	All populations	mg/dL	Normal
Nitrite	All populations	None	Negative
Leuk. Esterase	All populations	None	Negative, Trace

Microscopic			
Parameter	Population	Units	Reference Range
RBC's	All populations	#/hpf	0-2
WBC's	All populations	#/hpf	0-2
Squamous Epithelium	All populations	#/hpf	0-5
Transitional Epithelium	All populations	#/hpf	0-3
Renal Epithelium	All populations	#/hpf	None Seen
Bacteria	All populations	#/hpf	None Seen
Crystals	All populations	#/hpf	None Seen
Hyaline Casts	All populations	#/lpf	0-5
All Other Casts	All populations	#/lpf	None Seen
Mucus	All populations	#/lpf	None Seen, 1+, 2+
Sperm	All populations	#/hpf	Absent
Trichomonas	All populations	#/hpf	None Seen
Budding Yeast	All populations	#/hpf	None Seen
Oval Fat Bodies	All populations	#/hpf	None Seen

Critical Values
Glucose $\geq$ 150 mg/dL (Pediatric [<18yrs] only).
Ketones $\geq$ 60 mg/dL (Pediatric [<18yrs] only).

Reflex Testing

Algorithms used to determine testing and billing:

Reflex Testing

Only a macroscopic analysis (urine dipstick and gross visual inspection) is performed and CPT #81003 is billed if:

The sample's appearance is clear

The specimen is colorless, yellow or light yellow and dark yellow

The urine macroscopic analysis does not reveal an abnormality on any of the following dipstick tests: Blood, Leukocyte esterase, Nitrites, or Protein.

A macroscopic analysis and a urine sediment microscopic examination is performed and CPT #81001 is billed if:

The sample is turbid or extra turbid or

The sample is not yellow, light yellow, dark yellow, or colorless or

During the Macroscopic (reagent dipstick) analysis an abnormality is detected on any of the following tests: Blood, Leukocyte esterase (exception made for Trace results), Nitrites, or Protein.

Urine Culture Testing and billing: (See Culture urine or Microbiology: Urine Culture for requirements):

The Urine Culture will be performed and CPT #87086 will be billed if one out of three is present: positive nitrites, positive leukocyte esterase, and/or > 10 WBC/hpf seen on the microscopic.

Available STAT

Yes

Methodology

Urine reagent strip automated testing

CPT Code

See Reflex Testing