

Urinalysis

Test:	Automated Urine Chemistry and Automated Urine Microscopy.
Submission Criteria:	Specimen: Freshly voided urine Minimum Volume: 2 mL for Urine Chemistry 3 mL for Urine Microscopy 4 mL for a Complete Urinalysis
	<u>Container:</u> <ol style="list-style-type: none">1. Sterile urine container, no preservative.2. Red/yellow marble-top tube (BD Vacutainer Plus UA Preservative), with preservative
Storage and Stability:	Fresh Urine (no preservatives): 1 hour at room temperature 24 hours at 2-8 °C Preservative Urine (BD Vacutainer): 48 hours at 2-8 °C
Rejection Criteria:	Rejection criteria include but are not limited to: <ol style="list-style-type: none">1. Mismatched requisitions.2. Specimens without <u>two</u> patient identifiers.3. Specimens stored or shipped incorrectly.4. Specimens collected using expired BD Vacutainer Plus UA Preservative tubes.5. Specimens with inappropriate preservatives such as formalin or formaldehyde, disinfectant, or detergent added.6. Specimens not analyzed within the appropriate time frame.7. Specimens with quantity not sufficient.8. Hematuria9. Specimens contaminated with fecal matter.10. Specimens submitted without approval.11. Samples not shipped at appropriate temperature.12. Samples without <u>two</u> proper identifiers or samples having identifiers that do not match the electronic or paper lab requisition.
Turnaround Time:	Within 24 hours of receiving specimens.
Clinical Significance:	Urinalysis is performed to aid in the diagnosis of disease, to monitor the progress of disease, and to monitor therapy.
Results:	Urine Chemistry results are measured quantitatively, except for color and clarity. Urine Microscopy results are measured wither numerically per low-power field (LPF) or high-power field (HPF). Additionally, some particles are measured as either present or absent.

Reference Ranges:

Urine Chemistry Reference Ranges:		
Glucose	Normal	70mg/dL
Protein	Negative	30 mg/dL
Bilirubin	Negative	0.5mg/dL
Urobilinogen	Normal	2.0mg/dL
pH		5.0-8.5
Blood	Negative	1+
Ketones	Negative	10mg/dL
Nitrites	Negative	1+
Leukocyte Esterase	Negative	75 mg/dL
Clarity	Clear	Turbid
Specific Gravity		1.000-1.031
Color	Color will vary depending on the specimen	
Urine Microscopy Reference Ranges:		
RBC:	NONE	3/HPF
WBC:	NONE	5/HPF
SQEP:	NONE	10/HPF
BACT:	NONE	Rare
MUCS:	NONE	Many

Method:

The AUTION MAX AX-4030 is a fully automated urinalysis chemistry analyzer intended for the determination of glucose, protein, bilirubin, urobilinogen, pH, blood, ketones, nitrite, leukocytes, specific gravity, turbidity, and color-tone. The microscopic portion of a routine urinalysis is performed on the iQ200 Analyzer. The iQ200 Analyzer auto identifies and processes specimens by mixing, sampling, and analyzing the data obtained from the sample.

Platform:

AUTION MAX AX-4030, IRIS iQ200 Analyzer

CPT Code:

81001