Urinalysis Reference Intervals

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HNL Lab Medicine

Macroscopic	
Analyte	**Reference Interval**
Specific Gravity, mg/dL	1.003–1.030
pH	4.5–8.0
Protein, mg/dL	Negative
Glucose, mg/dL	Negative
Ketones, mg/dL	Negative
Blood, mg/dL	Negative
Leukocyte esterase, leu/ µL	Negative
Nitrite, mg/dL	Negative

Microscopy	
Urine Formed Elements	**Reference Interval**
Red Blood Cells	0–2/HPF
White Blood Cells	0–5/HPF
Squamous Epithelial Cells	0–5/LPF
Transitional Epithelial Cells	0–1/LPF
Renal Epithelial Cells	0–1/HPF
Hyaline Casts	0–2/LPF
Granular Casts	0–2/LPF
WBC Casts	0/LPF
RBC Casts	0/LPF
Waxy Casts	0/LPF
Renal Epithelial Casts	0/LPF
Fatty Casts	0/LPF
Bacteria	Negative
Yeast	Negative

Urine Reflex to Culture Criteria	
Component	**Reflex criteria**
Leukocyte esterase, leu/ µL	Any positive result
White Blood Cells	>5/HPF
Yeast	Present

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