











Preparation of urine control material
 To 500 ml 0.9% (wt/ vol) NaCl add the following : 5ml 50% (wt/ vol) dextrose, 2ml acetone, 25ml pooled human serum , and 0.1ml whole blood lysed in 0.1ml water. Adjust the pH to 6 using 0.1N NaOH and 0.1N HCl . This should give pH of approximately 6 , protein of 3+ , medium glucose , moderate ketones , moderate blood , and 1.010 sp gr. This solution is stable for about 2 weeks.

Normal Ranges

Hyaline casts	<2 /HPF
Squamous epithelial cells	<20
Renal tubular and transitional	<5 /HPF
WBC/RBC	<2 /HPF
Bacteria	Negative
Yeast	Negative

Reporting Format

Microscopic Finding	Reportable Format
Bacteria / yeast	Negative / Few / Moderate / Many
Mucous	Negative / Small / Moderate / Abundant
Amorphous	None / Moderate / Abundant
Epithelial cells	Squamous: average count / HPF ; Transitional and Renal : average count / HPF
Casts	Hyaline: average count / HPF ; Granular: light / moderate / many
WBC	average count / HPF ; Significant: Significant leukocyturia
RBC	average count / HPF ; Significant: Significant hematuria
Crystals	average count per 1000000 spgr

