

Lab 10: Kidney and Urine Analysis

1. Record results of the URS-10 test strip and compare to the expected results:

test	expected result	your result
volume	40 ml/hr	
transparency	transparent	
pH	4.5 - 8	
specific gravity	1.001 - 1.030	
leucocytes	negative	
nitrite	negative	
urobilinogen	negative	
protein	negative	
blood	negative	
ketone	negative	
bilirubin	negative	
glucose	negative	

2. When our body burns fat instead of glucose it produces substances called ketones. The ketones end up in your blood and urine. Under what conditions might this happen?
3. When would you expect blood, proteins, or leukocytes in your urine?
4. Make a sketch of the dissected kidney that will help you to explain how the kidney works.
5. Where does "dirty" blood enter the kidney?
6. Where does "clean" blood leave the kidney?
7. What is urine and where does it leave the kidney?
8. What happens in the renal cortex?
9. The medulla is the region located inward from the cortex. What happens here?