Date Group
Lab report from the practical lesson on biochemistry
Topic: Examination of urine
Task 1: Qualitative estimation of pathological components of urine
Protein in urine – principles of test-tube reaction and diagnostic strips:
Blood in urine – principles of test-tube reactions and diagnostic strips:
Sugar in urine – principles of test-tube reaction and diagnostic strips:
Ketone bodies – principles of test-tube reactions and diagnostic strips:

			diagnost	

Results:

1) Test tube reactions with known samples:

Sample	Sample Observed result				
	Test with sulfosalicylic acid				
Urine with protein					
Physiological urine					
	"Benzidine" test				
Urine with blood					
Physiological urine					
	Heitz-Boyer's test				
Urine with blood					
Physiological urine					
	Fehling's test				
Urine with glucose					
Physiological urine					
	Lestradet's test				
Urine with ketone bodies					
Physiological urine					
	Legal's test				
Urine with ketone bodies					
Physiological urine					

2) Examination of the unknown samples of urine with test tube reactions and the polyfunctional diagnostic strips:

	Sample 1		Sample 2		Sample 3		Sample 4	
	Test tube reactions	Dg. strip	Test tube reactions	Dg. strip	Test tube reactions	Dg. strip	Test tube reactions	Dg. strip
pН	×		×		×		×	
Protein								
Hemoglobin								
Glucose								
Ketone bodies								
Leukocytes	×		×		×		×	
Nitrite	×		×		×		×	
Bilirubin	×		×		×		×	
Urobilinogen	×		×		×		×	

Evaluation and conclusion:

photometer for objective semi-quantitative analysis of urine with diagnostic strips
Principle:
Result:
Task 3: Measurement of the relative specific gravity of urine with urinometer
Principle:
Result:

Task 2: Demonstration of semiautomatic reflectance

Task 4: Examination of urinary sediment in phase contrast

Results:

Draw and/or describe the findings in the provided preparation of urinary sediment.