Protocol - Laboratory 9

DIAGNOSTIC ENZYMES OF BLOOD IN LIVER DISEASES

Student name:……..…… group:……

Date:……

Determination of lactate dehydrogenase (EC 1.1.1.27) activity in blood serum (diagnostic kit):

The principle of method:

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A_{sample} = ... λ = ...

Calculations:

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C_{LDH} = ... Reference values: .....

Conclusions:

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Determination of aspartate aminotransferase (EC 2.6.1.1) activity in serum (diagnostic kit):

The principle of method:

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A_{sample} = ... λ = ...

Calculations:

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C_{ASAT} = ... Reference values: .....

Conclusions:

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Determination of alanine aminotransferase (EC 2.6.1.2) activity in serum (diagnostic kit):

The principle of method:

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A_{sample} = ... λ = ...

Calculations:

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C_{ALAT} = ...

Reference values: .....

Conclusions:

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Determination of total bilirubin in the blood serum (diagnostic kit):

The principle of method:

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A_{sample} = ... λ = ...

Calculations:

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C_{TB} = ...

Reference values: .....

Conclusions:

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Determination of direct bilirubin in blood serum (diagnostic kit):

The principle of method:

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A_{sample} = ... λ = ...

Calculations:

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C_{DB} = ...

Reference values: .....

Conclusions:

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Detection of bilirubin in bile

Principle of method:

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Observations and conclusions:

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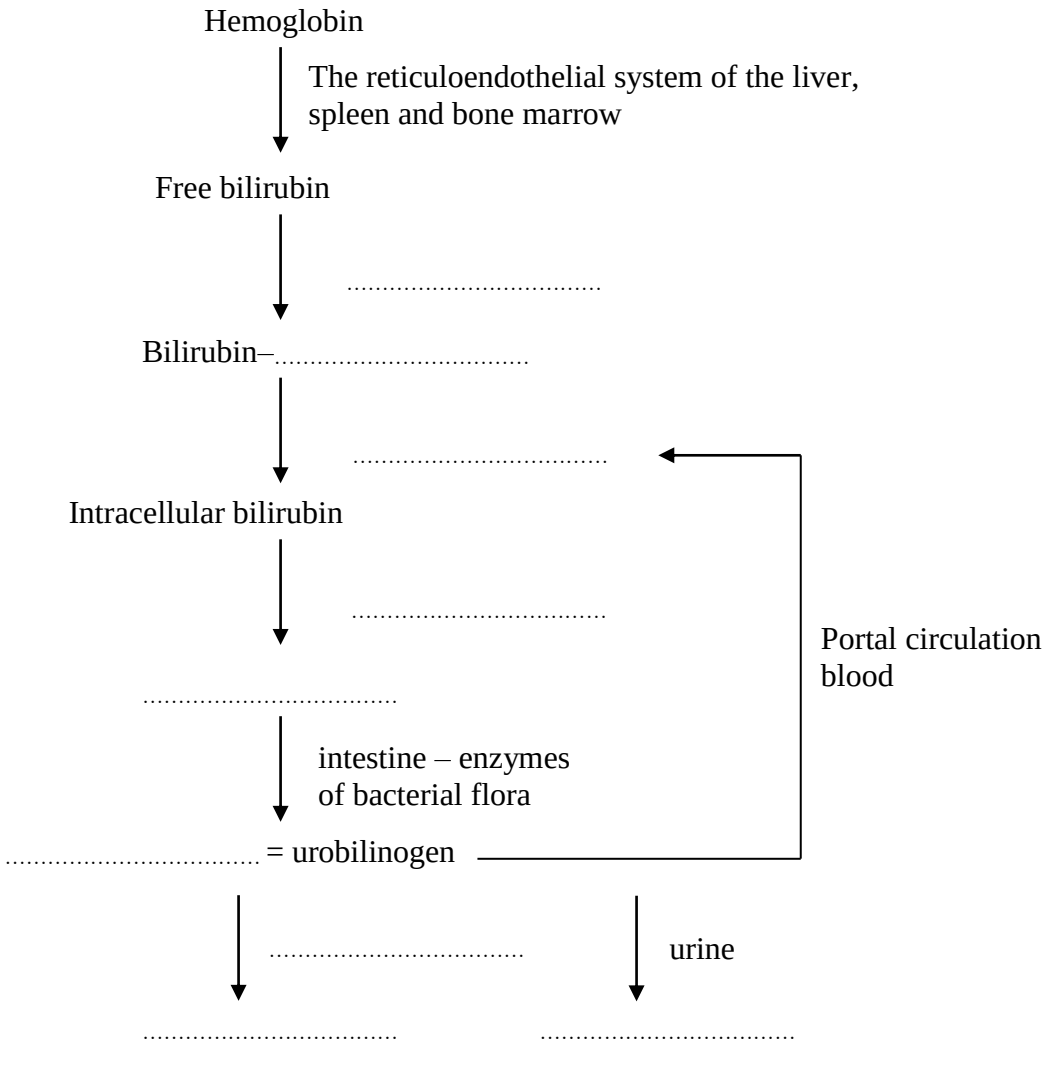
Complete the metabolic pattern of bilirubin:



Fill the table:

Parameter	Jaundice		
	Mechanical	**Hepatic**	**Hemolitic**
Indirect bilirubin in serum			
Direct bilirubin in blood serum			
Bilirubin in urine			
Urobilinogen in urine			
Urobilinogen in feces			

Signature of tutor:.....