**Practical Metabolism ( BCH 447 )**

**Credits :** 2 ( 0 + 2 )

**Prerequisite :** BCH 340

**Experiments**

1- Isolation of rabbit liver glycogen.

2- Enzymatic & acid hydrolysis of glycogen.

3- Enzymatic & acid hydrolysis of protein ( casein )

4- Hydrolysis of lipids.

 A . Determination of saponification number of lipids

 B . Enzymatic hydrolysis

5- Localization and study of the properties of some dehydrogenases in mammalian tissue.

 A . localization and inhibition of succinate dehydrogenase.

 B . NAD-dependent dehydrogenases in mitochondria.

 C . Co-enzyme requirement and location of lactate dehydrogenase.

6- Glycolysis in yeast I

7- Glycolysis in yeast II ( determination of metabolic intermediates )

 A . Test for pyruvate detection

 B . Test for acetaldehyde detection

**Scores**

Quizzes = 25 %

Reports = 25 %

Performance & discipline = 10 %

Final exam = 40 %

Total = 100 %

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