



COURSE DATASHEET

Semester:	2012/13/2
Course:	Biochemistry laboratory training
Code:	VEMKOKB231K
Responsible department:	Department of Organic Chemistry
Department code:	MKOK
Responsible instructor:	József Sándor Pap

Course objectives:

Educational objectives: Laboratory exercises tied closely to topics discussed in biochemistry lectures. Methods of qualitative and quantitative analysis used in biochemistry

Course content:

Detailed content of the subject 1.Introduction, safety, requirements, 2.Qualitative tests for amino acids 3.Protein chemistry, denaturation 4.Denaturation of proteins. 5.Qualitative tests for carbohydrates 6.Quantitative tests for carbohydrates 7.Qualitative tests for lipids 8.Iodine number, saponification of lipids 9.Enzymatic reactions. Invertase activity 10.Enzymatic reactions. Effect of the pH 11.Enzymatic reactions. Effect of the temperature. 12.Fermentation. 13.Determination of ascorbic acid concentration in juices. 14.Separation of pigments from chloroplasts. 15.Final test

Requirements, evaluation and grading:

Requirements: - attendance is compulsory - making reports of each experiment, passing pre-lab tests with an average score of 2 or above, passing final test with a score of 2 or above

Required and recommended readings:

Dr. Ábrahám Sándor, Dr. Oláh Béla, Földi Aranka, Cserépné Bendik Ildikó: Biokémiai laboratóriumi gyakorlatok. Veszprémi Egyetemi Kiadó