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Lab report from the practical lesson on biochemistry

Topic: Selected examinations in toxicology

Task 1: Thin-layer chromatography of selected drugs

Principle of TLC:

Results and evaluation:

Record appearance of each spot after each detection step. Measure distance of each spot as well as the solvent from the start and calculate the R_f value.

	Furosemide	Diclofenac	Tramadol	Mirtazapine	Metoprolol
Appearance under UV					
Marquis + heat					
Mandelin + heat					
Dragendorff + heat					
Distance of spot from start (a)					
Solvent front from start (b)					
Rf = a/b					

Conclusion:

Were all drugs detected?

Task 2: Proof of ethanol by reaction with potassium dichromate Principle:

Result/Observation:

Task 3: Estimation of ethanol in blood by means of gas chromatography – evaluation of chromatographic trace Principle:

Results and calculation:

 $(h_{et})_{CAL} \dots (h_{et})_{SAM} \dots (h_{is})_{SAM} \dots (h_{$

Conclusion:

Task 4: Demonstration of rapid immunochemical test for detection of drugs in urine

Principle:

Result/Observation: