

Modern liquid chromatographic methods

Schedule:

Week 1: Theory of liquid chromatography, structure of a liquid chromatograph

Week 2: Applications of liquid chromatography, coupled techniques

Week 3: Operating principles of detectors used in liquid chromatography, selection criteria

Week 4: Empower software usage I

Week 5: Empower software usage II

Week 6: Extraction of plasticizer content from PVC samples (sample preparation)

Week 7: Development of a measurement method for phthalate plasticizers using Empower software

Week 8: Qualitative and quantitative determination of plasticizers using HPLC and HPLC-MS methods

Week 9: Extraction of chili pepper samples, extraction of capsaicin content (sample preparation)

Week 10: Development of a measurement method for capsaicin determination using Empower software

Week 11: Qualitative and quantitative determination of capsaicin components using HPLC and HPLC-MS methods

Week 12: Discussion of the PVC and chili pepper sample results, professional report