

Solid phase extraction of 6-sulfatoxymelatonin II

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Abstract: The aim of theoretical part of this work was to collect results reached in recent years in study of analytical properties of 6-sulfatoxymelatonin (SaMT) via high performance liquid chromatography (HPLC) at Department of Biophysics and Physical Chemistry, Faculty of Pharmacy, Hradec Králové.

The aim of experimental part was to utilize results of previous works and to optimize the SPE method in order to separate SaMT from other urine compounds and to enable qualitative and quantitative detection of SaMT in urine. I tested columns **Discovery DSC-MCAX**, **Discovery DSC-CN**, **Discovery Oasis HLB** a **Strata NH₂**.

Best results were provided by **Strata NH₂**. In repeated tests all SaMT was retained on column and eluted by 2 ml 200 mM NH₄Cl in 20% MeOH of pH 11,3.