

## **SEPARATION OF ENANTIOMERS OF SOME NEW DERIVATIVES OF HYDRAZINES AND TRIAZINES IN HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY USING CHIRAL POLYSACCHARIDE COLUMNS**

*Mariam Shanidze<sup>1</sup>, Rusudan Kakava<sup>1</sup>, Alessandro Volonteri<sup>2</sup>, Bezhan Chankvetadze<sup>1</sup>*

*<sup>1</sup>Institute of Physical and Analytical Chemistry, Department of Chemistry, Faculty of Exact and Natural Sciences, Iv. Javakishvili Tbilisi State University, Tbilisi, Georgia*

*<sup>2</sup>Department of Chemistry, Materials, and Chemical Engineering, Politecnico di Milano, Milan, Italy*

The goal of our research was to study the separation of enantiomers of new nitrogen-containing chiral species (Hydrazine and Triazine derivatives) in a High-Performance Liquid Chromatography. We used Cellulose- and Amylose-based chiral columns and methanol was selected as the mobile phase. 12 research substances were dissolved in methanol and an attempt was made to separate their enantiomers. Based on the results we can draw conclusion that Lux Cellulose-4 column (cellulose tris(4-chloro-3-methylphenylcarbamate)) is characterized by the highest ability to separate enantiomers of the investigated substances, while the column iSP 9B (Lux i-Amylose-1), with amylose tris(3,5-dimethylphenylcarbamate) as chiral selector shows the lowest ability to separate enantiomers of studied compounds.