

SYNTHESIS OF THE 2,2'-BIPYRIDINE AND 1,10-PHENANTROLINE DERIVATES  
CONTAINING UNITS OF CARBOHYDRATES

ABSTRACT

This diploma thesis describes the preparation of *O*-glycoside and *N*-glycoside of the derivatives of 1,10-phenantroline and 2,2'-bipyridine, containing units of carbohydrates corresponding to the series D-glucose, galactose and mannopyranose and L-fucose and rhamnopyranose. The synthesis of the glycosylamines was realized by the direct reactions between the monosaccharides and the amines varying the conditions of reactions with object to optimise the process according to the bibliographical precedents. Afterwards relates the preparation of the 5-hydroxymethyl-5'-methyl-2,2'-bipyridine and consequently the experiment of formation of the *O*-glycoside of the alcohol of the bipyridine using the monosaccharide with protected –OH groups.