

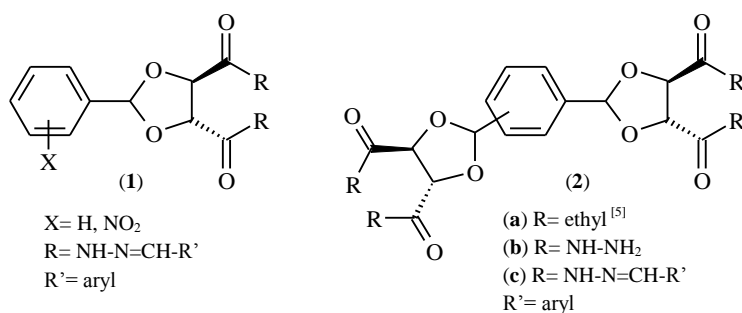
**SYNTHESIS OF NEW DERIVATIVES OF 2,2'-(1,2(3 OR 4)-PHENYLEN)BIS-[1,3-DIOXOLANE-4R,5R(+)-4,5-DIETHOXYCARBOXYLIC] ACIDS**

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There are variety of biologically active substances obtained from the *R,R*-(+)-tartaric acid which shows the antimicrobials<sup>[1]</sup> and antifungals<sup>[2][3]</sup> properties, that encourages our research in this direction. Previous studies of chiral bis-hydrazones of (4-*R*,5-*R*)-2-aryl-1,3-dioxolane-4,5-dicarboxylic acids show selective bactericidal and fungicidal properties (**1**)<sup>[4]</sup>. For these reasons, is important the synthesis of new tetra-hydrazones which contains two dioxolane cycles (**2c**) thus making possible duplication of bioactive groups. The esters (**2a**) are obtained by condensation (*R,R*)-2,3-bis(*O*-trimethylsilyl)tartrate with aromatic dialdehyde<sup>[5]</sup>. The next stage is to obtain tetra-hydrazides (**2b**) by treatment of esters (**2a**) with hydrazine. The last step is condensation of tetra-hydrazides (**2b**) with aromatic dialdehydes. The structures of compounds obtained were confirmed by IR, <sup>1</sup>H-NMR and <sup>13</sup>C-NMR spectra.



**References:**

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