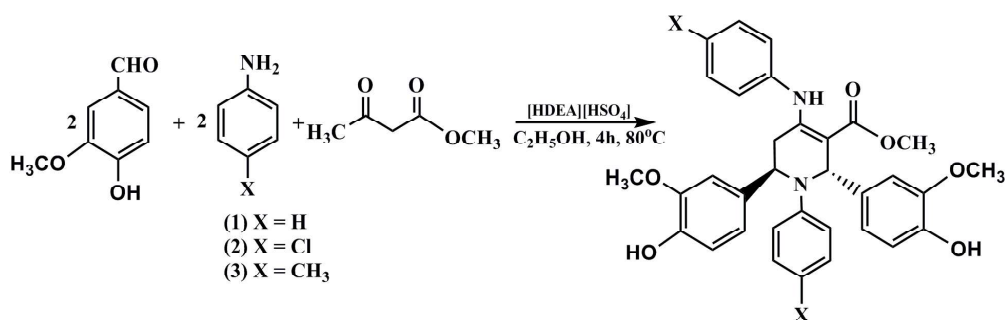


OH P 21

Diastereoselektivna one-pot sinteza vanilin-piperidinskih derivata i ispitivanje njihove antioksidativne aktivnosti

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U efikasnoj dvostrukoј one-pot Manihovoj reakciji između vanilina, metil-acetoacetata i različitih supstituisanih anilina dobijeni su visoko funkcionalizovani piperidinski derivati u dobrom prinosu (Shema 1). Kao reciklabilan katalizator ove reakcije upotrebljena je jonska tečnost dietanolamonijumhidrogensulfat. Važno je istaći da je ova ekonomična reakcija *anti*-diastereoselektivna, odnosno da je u njoj nastao samo *anti*-diastereoizomer. Sintetizovana jedinjenja reaguju dobro sa DPPH radikalom i ispoljavaju visoku aktivnost, malo nižu u odnosu na referentno jedinjenje NDGA. Jedinjenja **1-3** imaju slične IC₅₀ vrednosti i one iznose 10.9, 12.5 i 11.1 μM.



Diastereoselective one-pot synthesis of vanillin-piperidine derivatives and investigation of their atioxidative activity

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In the efficient one-pot double Mannich reaction of vanillin, methyl acetoacetate and different substituted anilines were obtained highly functionalized piperidine derivatives in good yield (Scheme 1). The ionic liquid diethanolammonium hydrogensulfate was used as recyclable catalyst. It is worth pointing out that this economical reaction is *anti*-diastereoselektive, namely in this reaction was formed only *anti*-diastereomer. The synthesized compounds interact well with DPPH radical, and exhibit high activity, slightly lower than the reference compound NDGA. Compounds **1-3** have similar IC₅₀ values 10.9, 12.5 i 11.1 μM, respectively.

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Reference

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