

Supervisor's assessment of  
Ph.D. student Dattatry Shivajirao Bhosale, M.Sc.

Dattatry Shivajirao Bhosale, M.Sc. is a Ph.D. student of Organic Chemistry at the Institute Organic Chemistry & Technology, Faculty of Chemical Technology University of Pardubice, Czech Republic since 2012. He was successfully working on the theme concerning immobilization of organic ligands to nanosystems based on magnetic nanoparticles or block copolymers. These systems can be used as enantioselective catalysts or as drug delivery systems. He is an active and skillful student in the laboratory. He is a co-author of the following articles: "Synthesis and characterization of a pH-sensitive conjugate of isoniazid with  $\text{Fe}_3\text{O}_4@\text{SiO}_2$  magnetic nanoparticles" published in *Bioorganic & Medicinal Letters* **2013**, *13*, 4692-4695; "Henry reaction catalyzed by recoverable enantioselective catalysts based on copper(II) complexes of  $\alpha$ -methoxypoly(ethylene glycol)-*b*-poly(L-glutamic acid) of imidazolidine-4-one ligands" published in *Tetrahedron: Asymmetry* **2014**, *25*, 334–339; and also co-author of article "Magnetically recoverable catalyst for asymmetric Henry reactions based on a substituted imidazolidine-4-one copper(II) complex supported by  $\text{Fe}_3\text{O}_4\cdot\text{SiO}_2$  nanoparticles" published in *Tetrahedron: Asymmetry* **2015**, *26*, 1300-1306. He successfully passed State examination involving "Advanced Organic Synthesis" and "Advanced NMR Spectroscopy". Due to above-given reasons, **I recommend** the dissertation thesis of Dattatry Shivajirao Bhosale, M.Sc. for the defense.

Pardubice, March 28, 2017



Prof. Ing. Miloš Sedlák, DrSc.

Supervisor of dissertation work

Statement of Head of Tutorial Workplace for Graduates  
about Dissertation Thesis Dattatry Shivajirao Bhosale, M.Sc.

I the undersigned hereby confirm that Dattatry Shivajirao Bhosale, M.Sc. has fulfilled all his obligations and prerequisites following from Study regulations concerning postgraduate studies. The dissertation thesis that he has submitted for defense examination has the following title:

*„Selected pyridine derivatives immobilized on colloidal nanosystems for asymmetric Henry reaction and drug delivery application“*

His doctoral supervisor is Professor Ing. Miloš Sedlak, DrSc.

Formal aspects of the submitted dissertation thesis are in accordance with the requirements of Article 15 of the present Study and Examination Regulations of the University of Pardubice. Dattatry Shivajirao Bhosale, is a co-author of three papers thematically connected with the dissertation thesis. These papers were published in international impact factor journals. The submitter presented and discussed the results of his dissertation research at a meeting of Institute of Organic Chemistry and Technology on March 28, 2017.

On the basis of his presentation and the above-mentioned facts **I recommend** the dissertation thesis of Dattatry Shivajirao Bhosale for the defense.

Pardubice, March 28, 2017



Prof. Ing. Miloš Sedlák, DrSc.

*Head of Institute of Organic Chemistry & Technology*