



Proceeding of 11th JCC 2016

1 pesan

Amin Fatoni <aminfatoni@unsoed.ac.id>

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Kepada: adi_darmawan@undip.ac.id, alrum.armid@gmail.com, anggakartiwa@gmail.com, jamuzi@ui.ac.id, arief.cahyanto@fkg.unpad.ac.id, amelli_kimia@yahoo.co.id, beni@ugm.ac.id, choiril.azmi@gmail.com, cici.darsih@gmail.com, Dadan Hermawan <dadanhpd@gmail.com>, dsuci72@gmail.com, Dian Riana <deeyan_bik@yahoo.com>, donny_s@ymail.com, ehaldy@mipa.uns.ac.id, ella.kusuma@gmail.com, erwintoepak@sci.ui.ac.id, vaulinaeva@gmail.com, widhimahatmanti@rocketmail.com, fahmiati05@gmail.com, gunawan_undip@yahoo.com, hartatis2003@yahoo.com, ari.asnani@unsoed.ac.id, i.wiani@unpad.ac.id, isfatimah@uii.ac.id, miyato_np@yahoo.com, jumaeri.unnes@gmail.com, meiny_suzery@yahoo.com, Mekar Dwi A <mekar.dwi@gmail.com>, dachyar.effendy@bppt.go.id, abi_fifa@yahoo.com, nandang.suhendra@bppt.go.id, nanikanang@gmail.com, ngadiwiyan@gmail.com, wiwid_mgl_78@yahoo.co.id, nuning.aisah@bppt.go.id, sharizal187@perlis.uitm.edu.my, oziadisaputra@student.uns.ac.id, siahaan_parsaoran@yahoo.com, Puji Lestari <pujilestari_06@yahoo.co.id>, purbowatining@gmail.com, rahmat_jes@student.uns.ac.id, r.maharani@unpad.ac.id, rudy.agustriyanto@staff.ubaya.ac.id, ssamanman@gmail.com, sarbiokim@gmail.com, sentotbr@yahoo.com, setiabudi@unj.ac.id, Siti Fatimah <sf120@ums.ac.id>, ulfa.ms@gmail.com, kumalasari_beriana@yahoo.com, zifaluqi@gmail.com, yoko_styk@yahoo.com, windarti_tri@yahoo.com, triana_kusumaningsih@staff.uns.ac.id, urip-as@ugm.ac.id, veni.takarini@fkg.unpad.ac.id, vondi.2297@gmail.com, wahyuekoprasetyo95@student.uns.ac.id, witrn@mipa.uns.ac.id, Moderator for Invited Speakers Presentation - The 9th Joint Conference on Chemistry <yayuk_astuti@undip.ac.id>, yenn001@lipi.go.id, zulha.hasratningsih@fkg.unpad.ac.id, Zufahair Bilalodin <zufahair@gmail.com>

Dear Authors,

We are delighted to inform you that the editorial process of the 11th Joint Conference on Chemistry 2016 in Conjunction with the 4th Biomaterials Meeting has been completed and the proceeding is now available online on IOP Conference Proceeding: Materials and Science Engineering, Vol 172, in the link below

<http://iopscience.iop.org/issue/1757-899X/172/1>

Please be reminded that the 11th JCC 2016 only published its proceeding in the online form. Presenters and participants whose interested in obtaining printed copies of the proceeding should contact the IOP Publishing directly, an extra cost will be incurred for request of the printed copies of the proceeding.

Thank you for your support for the 11th Joint Conference on Chemistry 2016 in Conjunction with the 4th Biomaterials Meeting and we look forward to your participation in the upcoming 12th JCC 2017 on 19-20 September 2017 in Universitas Negeri Semarang, Semarang, Jawa Tengah (<http://kimia.unnes.ac.id/jcc2017/>).

Best Regards,

11th JCC2016 Chairman,
Amin Fatoni, Ph.D
Department of Chemistry, Faculty of Science
Jenderal Soedirman University
Jl Dr Soeparno 61, Karangwangkal

Development of high performance liquid chromatography method for miconazole analysis in powder sample

D Hermawan¹, Suwandri¹, U Sulaeman¹, A Istiqomah¹ and H Y Aboul-Enein²

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dadanphd@gmail.com

¹ Department of Chemistry, Faculty of Mathematics and Natural Sciences, Jenderal Soedirman University, Purwokerto, Indonesia.

² Department of Pharmaceutical and Medicinal Chemistry, Pharmaceutical and Drug Industries Research Division, National Research Centre, Dokki, Cairo, Egypt.

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Abstract

A simple high performance liquid chromatography (HPLC) method has been developed in this study for the analysis of miconazole, an antifungal drug, in powder sample. The optimized HPLC system using C₈ column was achieved using mobile phase composition containing methanol:water (85:15, v/v), a flow rate of 0.8 mL/min, and UV detection at 220 nm. The calibration graph was linear in the range from 10 to 50 mg/L with r^2 of 0.9983. The limit of detection (LOD) and limit of quantitation (LOQ) obtained were 2.24 mg/L and 7.47 mg/L, respectively. The present HPLC method is applicable for the determination of miconazole in the powder sample with a recovery of 101.28 % ($RSD = 0.96\%$, $n = 3$). The developed HPLC method provides short analysis time, high reproducibility and high sensitivity.

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