

Téma diplomové práce	<b>Derivatives of Rhodanine as Potencial Antifungal Drugs</b>
Jméno studenta, studentky	<b>Marianna El-Zein</b>
Jméno oponenta	<b>PharmDr. Kamil Kopecký, Ph.D.</b>

## II. Posudek oponenta

Diploma thesis of Marianna El-Zein is written in English and is an experimental work. It has 52 pages and 79 bibliographic citations. Student was engaged in synthesis of Mannich bases derived from rhodanines. The thesis includes introduction, well defined aim of the work, teoretical part concerned with mycoses and antifungal drugs. In experimental part student describes performed syntheses and their results. The thesis is finished with discussion, conclusions, list of literature and abstract. In my opinion, more effort should have been devoted to modify reaction and chromatographic conditions. The prepared substances have character of bases, it can be changed the mobile phase for better division and behaviour.

I have these questions to this work:

You write about antifungals which are used (polyenes, azoles...). Are some derivatives of rhodanine in preclinical or clinical trials?

Did you find any article about conjugates of amphotericin B which is usable for minimalization of nephrotoxicity?

Mannich base derivative of benzylidene rhodanine with diethylamine is described in literature. Do you have any idea why you had problems with this synthesis? Did you try another approach which is not described in literature?

Did you try to add a base to the mobile phase? It can be usable for decreasing of ionization of tertiary amino group.

In the case of reaction with morpholine you had success in reaction of benzylidene derivative of rhodanine. Did you try reaction with morpholine with other derivatives of rhodanine (nitro- and hydroxybenzylidene) which you had prepared?

I recommend with thesis to defence.

Navrhovaná klasifikace **Very good**

V Hradci Králové dne 16.9.2010

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Podpis oponenta diplomové práce

