Reviewer’s assessment of Diploma Thesis

<table>
<thead>
<tr>
<th>Reviewer</th>
<th>doc. RNDr. Milan Dittrich, CSc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Author of the Thesis</td>
<td>Alexandros Papadopoulos</td>
</tr>
<tr>
<td>Year of proceeding</td>
<td>2014</td>
</tr>
<tr>
<td>Title of the Thesis</td>
<td>Osmolality of electrolyte infusions</td>
</tr>
</tbody>
</table>

Extent:
Number of pages 53
Number of charts 0
Number of figures 12
Number of tables 8
Number of references 21
Number of annexes 0

a) The Thesis is experimental
b) The aim of the Thesis is for the most part fulfilled
c) Linguistic and graphical quality very good
d) Theoretical part quality good
e) Description of methods excellent
f) Presentation of results excellent
g) Discussion, conclusions excellent
h) Theoretical or practical merits of the Thesis very good

Any notes concerning the review:
Technical objection: The text was apparently finally treated by the use of partially incompatible software program. Some words in the whole text are then joined.
The referee don’t regard the definition of parenterals as correct (p. 9 - first sentence). On the page 11 are mentioned salts of sulphur dioxide, the definition on buffers on the same page is very inaccurate. The claim about preventing the role of surfactant against crystallization is evidently incorrect, in some cases the activity of these compounds heads towards the opposite sense (p.12). For long-term physical stability of emulsions are in the more extent important the polydispersity of particles than their size (p. 17). On the page 21 I miss an exact definition of sterility.
In the submitted thesis the main merit of the experiment is in the confirmation of results published by Streng et al., J. Pharm. Sci. 67 (1978) 384.

Questions and comments:
What is the difference between pharmaceutical preparations and dosage forms? This question concerns the formulation mode of the first sentence on the page 9.
Do you know other pharmaceutical hydrophilic antioxidants besides salts of sulphurous acid?
 Exists some general parameter which influences relation between the error of calculation of osmolarity and electrolyte concentration?
What is the reason for your choice the density parameter as dependent parameter situated in the ordinate axis?

Aggregate mark: very good
Admission to defence: recommended

Hradec Králové, September 12, 2014

..............................................
Reviewers signature