Reviewer's report

Title: Amiloride derivatives as potential therapeutic agents for type 2 diabetes: A randomized controlled study

Version: 1 Date: 23 September 2005

Reviewer: J Schrezenmeir

Reviewer's report:

Major Compulsory Revisions: none

Minor Essential Revisions

Page 9

hypo s insulinemic

Fig 3:
In the legend the complete words for the alleviations G, a KIC and BCH should be given in order to alleviate reading.

Page 10:
However the ? fold increase in islets from NON mice ……
Please check the sentence

Discretionary Revisions

More information should be given on the traits and genetics of the type 2 diabetes mouse models used in the study, if available. Particularly, is there anything known about genetic effects which may have impact on Na+/H+ - exchanger, intracellular pH calcium influx and potassium retention?

Values of glucose and insulin plasma concentrations in mice treated with and without DMA and amiloride should be given, if available. Glucose values might be higher based on data in the literature. The increased insulin release, found by the authors, probably exclude an interfering “glucose-toxic” effect.

What next?: Accept after minor essential revisions

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: No

Declaration of competing interests:
I declare that I have no competing interest.