Peer Review File

Effect of Buddleja officinalis eye drops to inflammatory factors of lacrimal gland cells of castrated male rabbit with dry eye

Reviewer: 1

1. Did all of the rabbits complete the experiment?
2. The concentrations and rates of the eyedrops used in this study should be described more clearly.
3. The background of the figures seems not the same, which may make it difficult to compare each other. For example, figure 1 and 2.
4. Testosterone is one of the androgens but not all, thus they could not be used instead of each other in this paper.

Author's Response

All the rabbits completed the experiment. The background of the figures was not the same because the lab assistant took pictures without setting for white balance. In this paper we just prove this traditional Chinese medicine had hormone like effect to treat dry eye.

Reviewer: 2

1. The title has a mistake. “Effect of Buddleja Officinalis Eye Drops to on Inflammatory Factors of the Lacrimal Gland Cells of Castrated Male Rabbit “
2. The abstract has the similar mistakes as in title.
3. Please select appropriate keywords. (Ex: Dry eye is missing!)
4. The manuscript generally needs language polishing; grammatical and punctuation errors need to be corrected. Better scientific expressions are required throughout the text.

Examples are;
4a. On line 10-11 of Page 1” Group A: blank group, Group B: model group, are not used in scientific publications must be corrected.
4b: Abbreviations SIT and BUT are used in the abstract without explanation.
4c: On line 34 of Page 3, “…gland tissue was dyed….is used. The correct expression is “specimens from lacrimal gland were stained”

Some other misused phrases, words, and statements are also in the manuscript. Please kindly correct, throughout the text.

5. Methodology:
The methods are not neatly explained. The reader needs to extract knowledge by effort. What do you mean by Blank group? Is that your control group? What do you mean by “Model group”? “Testosterone group”? What do you mean by low, moderate, high concentrations? What is the numeric value of these concentrations? Please clearly write the methods.

6. The manuscript does not give solid data compared with relevant literature up to present date. Discussion with the present literature is needed to be meticulously written.

7. The brief explanation about “what new does this study bring to dry eye literature?”, when compared to the already present reviews is not given.

Please clearly explain what you added new.

Author's Response

About title, abstract and content I tried my best to correct some mistakes. In addition to the blank group, all rabbits were treated by bilateral testicular and epididymis resection with reference to the relevant literature. low concentration BOED group, medium concentration BOED group and high
concentration BOED group were respectively treated with corresponding concentration BOED. 3 ml low concentration BOED was equivalent to 0.5g original medicinal materials; each 3ml medium concentration BOED was equivalent to 1g original medicinal material; each 3ml high concentration BOED was equivalent to 2g original medicinal material. This study has been confirmed that BOED had hormone like effect, could inhibit expression of inflammatory factor TNF- alpha and IL-1 induced androgen deficiency in rabbit lacrimal gland cells, maintained the stability and volume of basic secretion of lacrimal gland. It has provided a new natural drug for the treatment of dry eye disease, at the same time it has avoid the side effects caused by long-term use of androgen, which has been broad application prospects.