

## Supplementary Data

### Perspectives of Positively Charged Nanocrystals of Tedizolid Phosphate as Topical Ocular Application in Rabbits

Abdullah Alshememry <sup>1#</sup>, Musaed Alkholief <sup>1#</sup>, Mohd Abul Kalam <sup>1</sup>, Mohammad Raish <sup>1</sup>, Raisuddin Ali <sup>1</sup>, Sulaiman S. Alhudaithi <sup>1</sup>, Muzaffar Iqbal <sup>2</sup> and Aws Alshamsan <sup>1,\*</sup>

<sup>1</sup> Department of Pharmaceutics, College of Pharmacy, King Saud University, Riyadh 11451, Saudi Arabia; makalam@ksu.edu.sa (M.A.K); mraish@ksu.edu.sa (M.R); ramohammad@ksu.edu.sa (R.A) aalshememry@ksu.edu.sa (A.A); malkholief@ksu.edu.sa (M.A)

<sup>2</sup> Department of Pharmaceutical Chemistry, College of Pharmacy, King Saud University, Riyadh 11451, Saudi Arabia; muziqbal@ksu.edu.sa [\(M.I\)](#)

\* Correspondence: aalshamsan@ksu.edu.sa

# These authors contributed equally to this work.

## Supplementary Tables

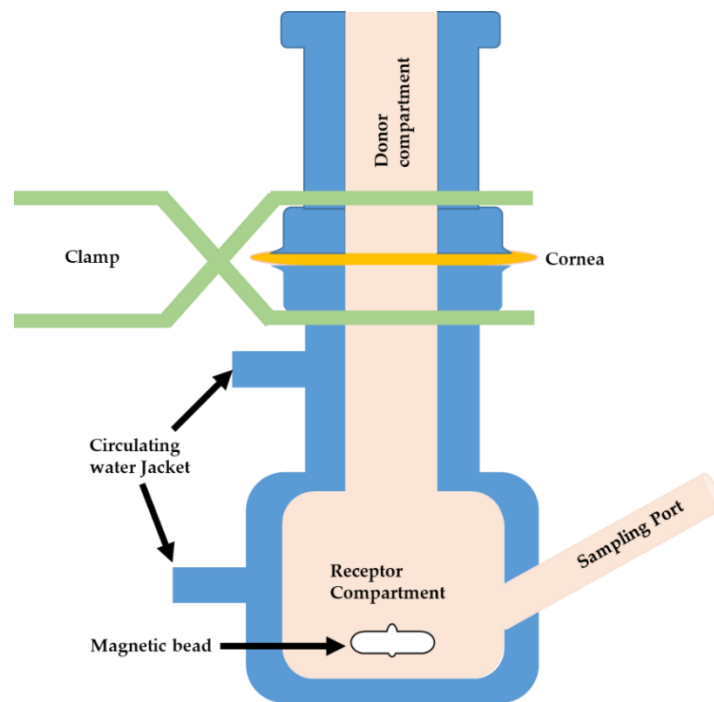
**Table S1: Grading system for ocular irritation test**

Cornea		
Lesion		Score
<b>a. Opacity-Degree of density (area which is most dense is taken for reading)</b>		
No ulceration or opacity		0
Scattered or diffuse area – details of iris clearly visible		1
Easily discernible translucent areas, details of iris slightly obscured		2
Opalescent areas, no details of iris visible, size of pupil barely discernible		3
Opaque, iris invisible		4
<b>b. Area of cornea involved</b>		
One quarter (or less) but not zero		1
Greater than one quarter but less than one half		2
Greater than one half but less than three quarters		3
Greater than three quarters up to whole area		4
<b>Score equals (a x b x 5):</b>	<b>Total maximum =</b>	<b>80</b>
Iris		
Lesion		Score
<b>a. Values</b>		
Normal		0
Folds above normal, congestion, swelling, circumcorneal injection (any one or all of these or combination of any thereof), iris still reacting to light (sluggish reaction is positive)		1
No reaction to light, hemorrhage; gross destruction (any one/ all of these)		2
<b>Score equals (a x 5):</b>	<b>Total maximum =</b>	<b>10</b>
Conjunctiva		
Lesion		Score
<b>a. Redness (refers to palpebral conjunctiva only)</b>		
Vessels normal		0
Vessels definitely injected above normal		1
More diffuse, deeper crimson red, individual vessels not easily discernible		2
Diffuse beefy red		3
<b>b. Chemosis</b>		
No swelling		0
Any swelling above normal (includes nictitating membrane)		1
Obvious swelling with partial eversion of the lids		2
Swelling with lids about half closed		3
Swelling with lids about half closed to completely closed		4
<b>c. Discharge</b>		
No any discharge		0
Any amount different from normal (does not include small amount observed in inner canthus of normal animals)		1
Discharge with moistening of the lids and hairs just adjacent to the lids		2
Discharge with moistening of the lids and considerable area around the eye		3
<b>Score equals (a + b + c) x 2:</b>	<b>Total maximum =</b>	<b>20</b>

**Table S2: Classification of eye irritation scoring system**

<b>Classification of Irritation</b>	<b>Maximum Mean Total Score (MMTS*)</b>
None	0.0-0.5
Practically none	0.6-2.5
Minimally	2.6-15.0
Mildly	15.1-25.0
Moderately	25.1-50.0
Severely	50.1-80.0
Extremely	80.1-100.0
Maximally	100.1-110.0

**Figure S1**



**Figure S1: Schematic representation of Franz Diffusion cell**