

## **Supporting information**

### **Evaluation of acute and sub-chronic toxicity of bitter melon seed extract in Wistar rats**

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Table 1. Pathological examination in male rats.

Groups		0 mg/kg	250 mg/kg	500 mg/kg	1000 mg/kg
<b>Organs &amp; Lesions</b>	<b>Number of animals</b>	10	10	10	10
<b>Gross findings</b>					
<b>External examination</b>					
No abnormality detected		10	10	10	10
<b>Internal examination</b>					
No abnormality detected		10	10	10	10
<b>Microscopic examination</b>					
<b>Kidneys</b>					
Basophilic tubules, cortex		1	X	X	0
Dilation, pelvis		2	X	X	0
<b>Heart</b>					
Infiltrate, inflammatory cells, myocardium		0	X	X	1
<b>Pituitary</b>					
Cyst, pars distalis		1	X	X	1
<b>Prostate</b>					
Infiltrate, mononuclear cells, interstitial		2	X	X	1
<b>Thymus</b>					
Haemorrhages, medulla		1	X	X	0
<b>Lungs</b>					
Granuloma, alveolar		0	X	X	1
Infiltrate, inflammatory cells, alveolar		1	X	X	1
Inflammation, chronic, alveolar		0	X	X	1

**Note:** Organs not included in table did not reveal any gross and histopathological findings. X = Organs not examined as per study plan.

Table 2. Pathological examination in female rats.

Groups		0 mg/kg	250 mg/kg	500 mg/kg	1000 mg/kg
Organs & Lesions	Number of animals	10	10	10	10
<b>Gross findings</b>					
<b>External examination</b>					
No abnormality detected		10	10	10	10
<b>Internal examination</b>					
No abnormality detected		10	10	10	10
<b>Microscopic examination</b>					
<b>Adrenals</b>					
Accessory adrenocortical tissue		1	X	X	2
<b>Kidneys</b>					
Hyperplasia, urothelium		0	X	X	1
Mineralisation, tubular		6	X	X	1
Dilation, pelvis		0	X	X	1
<b>Liver</b>					
Infiltrate, inflammatory cells		1	X	X	0
<b>Pituitary</b>					
Cyst, pars distalis		0	X	X	1
<b>Spleen</b>					
EMH, increased, red pulp		1	X	X	0
<b>Pancreas</b>					
Atrophy, acinar		0	X	X	1

**Note:** Organs not included in table did not reveal any gross and histopathological findings. X = Organs not examined as per study plan.