

Appendix A2

Fig. A1: A single experimental record of carbachol concentration-response curves in absence and presence of unique doses of GphT (1.41 mg/ml) in isolated rat intestine.

Fig. A2: A single experimental record of calcium concentration-response curves in absence and presence of unique doses of GphT in isolated rat intestine.

Fig. A3: A single experimental record of relaxation concentration-response curves of GphT in isolated rat intestine.

Fig. A4: A single experimental record of relaxation concentration-response curves of diosmin in isolated rat intestine (a) and the relaxation response curve of diosmin in isolated rat small intestine.

Fig. A5: A single experimental record of the effects of GphT on blood pressure in normotensive rats.

Fig. A6: Photo of the flow calorimeter and heart set-up (a) and a single experimental record (b)

Fig. A7: Schema of protocols in isolated rat hearts exposed to ischemia/reperfusion.

Fig. A8: Results of the chromatographic analysis of *Gomphrena perennis* L. tincture (GphT) by HPLC-DAD (a) Chromatograms of GphT (solid line) and mixed-standard solution (dotted line), and (b) UV spectra of the selected peaks.

Fig. A9: UV spectra obtained in the mobile phase used. Metabolites from 1 to 6.

Fig. A10: UV spectra obtained in the mobile phase used. Metabolites from 7 to 15.

Fig. A11: Inhibition curves of *G. perennis* tincture (GphT) obtained from the different CRCs of carbachol (CCh) in the absence (a) and in the presence of indomethacin (b) or in Ca^{2+} -CRC (c) in isolated rat intestine. The 50% inhibitory concentration (IC_{50} in mg/ml) was obtained by extrapolation at 50% effect of the individual inhibitory curves. (t-test: $P = 0.5185$, $t = 0.6670$, $df = 11$, NS vs control without indometacine).

Fig. A12: Infarct size area of rat heart exposed to isquemia reperfusion. One-way ANOVA: $F=0.2145$, $P=0.8109$. *A posteriori* Tukey's test. NS vs C.

Table A1: Retention time of the GphT peaks and reference substances obtained by HPLC-UV.

Table A2: Effect of *G. perennis* tincture (GphT) on urinary volumetric excretion (UVE%).

Table A3: Results of two-way ANOVA obtained from data in Figure 2. The results of a *posteriori* Tukey's test are shown in the respective figure.

Table A4: Results of two-way ANOVA obtained from data in Figure 3. The results of a *posteriori* Tukey's test are shown in the figure.

Table A5: Results of two-way ANOVA obtained from data in Figure 4. The results of a *posteriori* Tukey's test are shown in the figure.